



REPORT OF THE  
**Hydro-Electric Power**  
**Commission**  
OF ONTARIO  
**1924**

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MR. WILLS MACLACHLAN

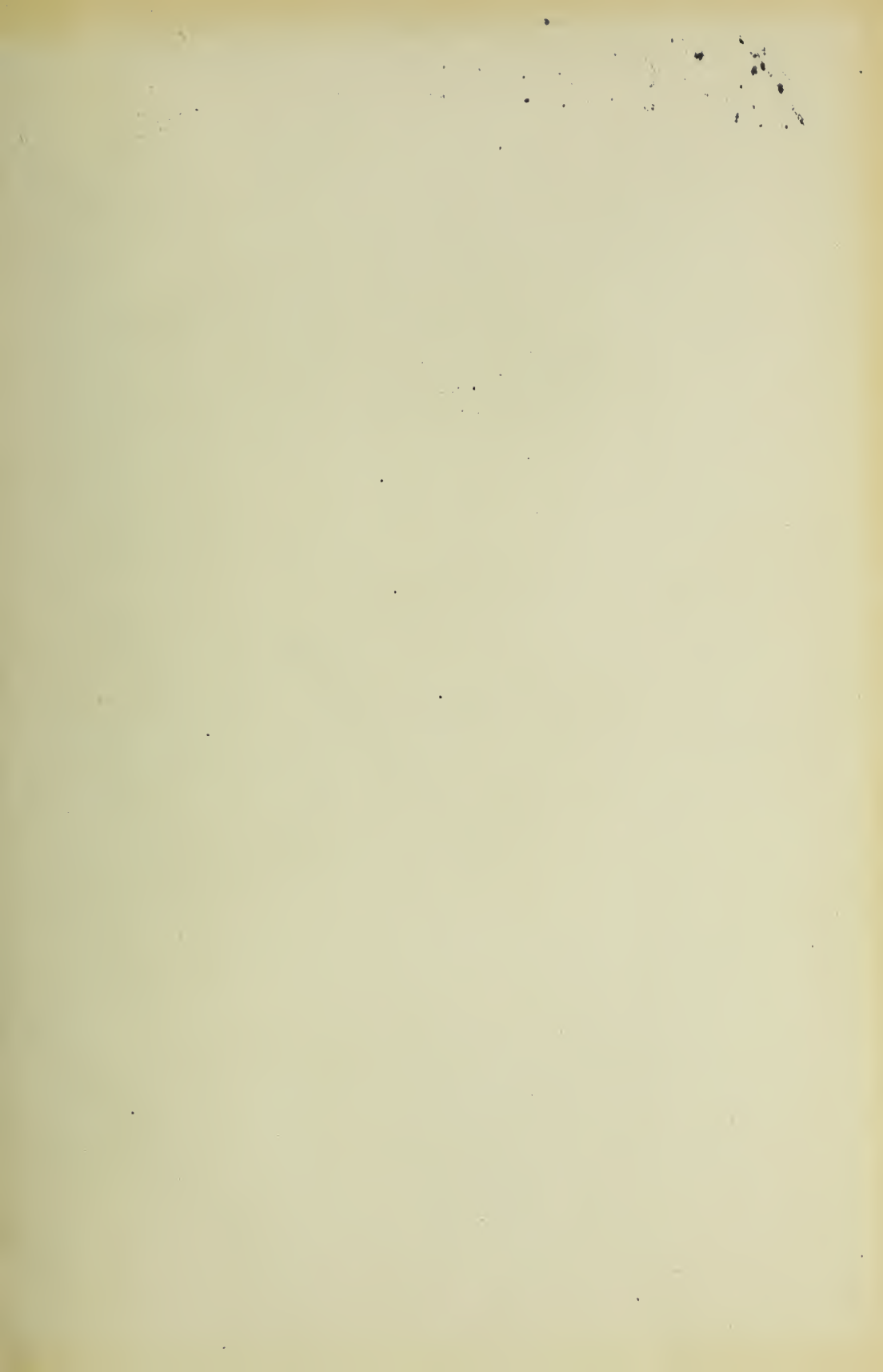
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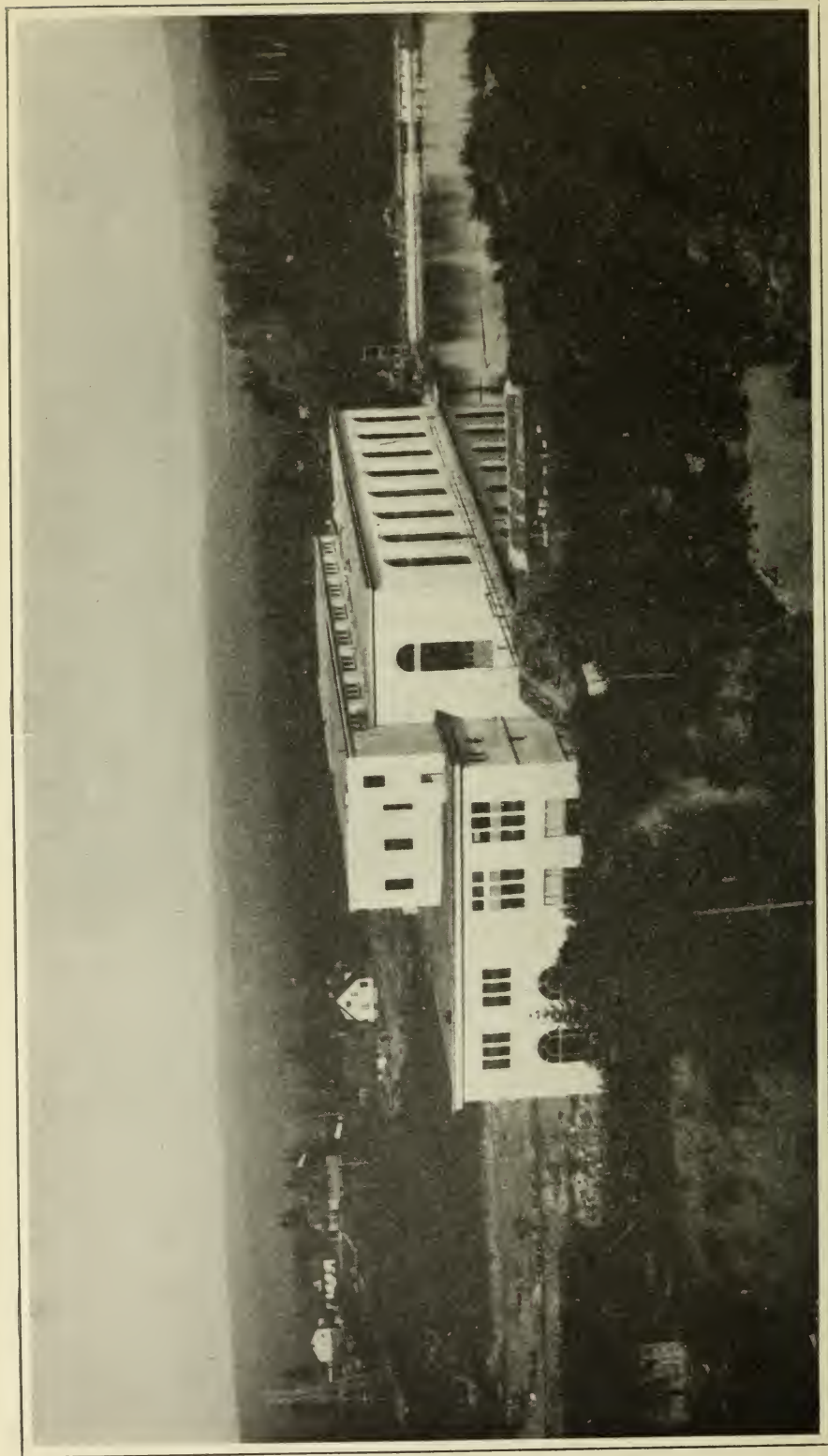
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THUNDER BAY SYSTEM—CAMERON FALLS POWER DEVELOPMENT—NIPIGON RIVER

Supplies power to the Thunder Bay district. View taken from upstream side showing forebay on right and tailrace on left. The power house is completed for four units and units No. 5 and No. 6 are being installed

*for Doc  
Ont.  
H.* *Ontario Hydro-Electric Power  
Commission*

(Seventeenth) Annual Report

OF THE

# HYDRO-ELECTRIC POWER COMMISSION

OF THE

PROVINCE OF ONTARIO

FOR THE YEAR ENDED OCTOBER 31st

## 1924

PRINTED BY ORDER OF  
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1925

# HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

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HON. SIR ADAM BECK, KT., LL.D., M.L.A.....*Chairman*

HON. J. R. COOKE, M.L.A.....*Commissioner*

W. W. POPE, ESQ.....*Secretary*

F. A. GABY, B.A.Sc., D.Sc.....*Chief Engineer*





*To His Honour* THE HONOURABLE HARRY COCKSHUTT,  
*Lieutenant-Governor of Ontario*

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to your Honour the Seventeenth Annual Report of the Hydro-Electric Power Commission of Ontario for the fiscal year ending October 31, 1924.

This Report covers all of the Commission's activities and also embodies the financial statements of the municipal electric utilities operating in conjunction with the various systems of the Commission and supplying electrical service to the people of the Province. The financial statements, the statistical data, and the general information contained herein have been so arranged as to present clearly and concisely every important feature of the Commission's operations.

The Report deals with all phases of the operations of the Commission for the past year with respect to nine systems to which are connected 386 municipalities, including 131 townships and rural districts, and 93 industrial companies. The Report also shows the cumulative financial results for the various periods during which operation has been maintained.

Industrial conditions throughout the Province during the year have improved but are still below normal, with the result that there is not yet a rapidly increasing demand for power for industrial uses. Notwithstanding this general industrial condition, there has been a considerable growth in the demand for power on nearly all systems, and on several systems the Commission has reached the limit of the capacity of the existing generating plants. It is, therefore, necessary for the Commission, on practically all systems, to make arrangements to secure additional power developments to meet the ever-increasing demand.

During the past year, special efforts have again been made by the Provincial Government, by the municipalities of the Province and by the Hydro-Electric Power Commission to secure permission to commence construction of the power development works in the international portion of the St. Lawrence river. Delay in securing the permission sought must result in accentuating the power shortage that is rapidly materializing.

A gratifying feature of the Commission's operations during the past year is the remarkable increase in the demand for electrical energy in the Thunder Bay system. Not only is this system in excellent financial condition, but the contracts for electrical energy are such that an aggregate of 70,000 horsepower is under agreement, while additional applications have been received from customers such as will bring the early possible future load to about 90,000 horsepower. This great demand has compelled the Commission not only to increase existing plants to their maximum capacity, but to determine also the means by which a large increase in power-producing installation may be provided in order to serve the rapidly growing needs of this important section of the Province.

The following tabulation shows the growth in load in the various systems during the year:

### DISTRIBUTION OF POWER TO SYSTEMS

#### 20-MINUTE PEAK HORSEPOWER

System	October 1923	October 1924	December 1924*
Niagara system and export .....	592,775	581,770	662,311
Georgian Bay system .....	13,695	15,449	15,529
Muskoka system .....	1,415	1,560	1,582
St. Lawrence system .....	5,877	4,998	5,112
Rideau system .....	3,137	2,694	2,607
Thunder Bay system .....	16,958	34,200	37,500
Ottawa system .....	12,528	13,206	14,708
Central Ontario and Trent system .....	37,332	34,892	39,222
Nipissing system .....	1,769	2,429	2,218
Total .....	<u>685,486</u>	<u>691,198</u>	<u>780,789</u>

\* The December loads are also shown for 1924, as many varying factors make it difficult to show from the October conditions of 1924 the real growth of the systems' loads.

It will be observed that the financial statements embodied in this Report are presented in two main divisions, namely, a division—Section IX—which deals with the operations of the Commission in the generation, transformation and transmission of electrical energy *to the co-operating municipalities*, and a division—Section X—which deals with the various operations of the municipalities in the localized distribution of electrical energy *to consumers*.

The cumulative results to date of the operation of the several systems of the Commission as set forth in this Report demonstrate a remarkably healthy financial condition.

The total investment of the Hydro-Electric Power Commission of Ontario in power undertakings and hydro-electric railways is \$190,027,909.66, and the investment of the municipalities in distributing systems and other assets is \$72,753,596.31, making, in power and hydro-electric railway undertakings, a total investment of \$262,781,505.97.

The following statement shows the capital invested in the respective systems and municipal undertakings:

Niagara system .....	\$148,469,979.78
Georgian Bay system .....	4,383,531.42
Muskoka system .....	387,314.97
St. Lawrence system .....	1,047,855.07
Rideau system .....	1,081,913.40
Thunder Bay system .....	9,336,535.13
Ottawa system .....	30,265.98
Central Ontario and Trent system .....	13,463,780.86
Nipissing system .....	1,012,252.20
Service buildings, construction plant, stores, etc. ....	2,686,666.16
Hydro-electric railways .....	8,127,814.69
	<u>\$190,027,909.66</u>
Municipalities' distributing systems and other assets—all systems. . .	72,753,596.31
	<u>\$262,781,505.97</u>

It is gratifying to the Commission to be able once again to report that the revenue obtained from the consumers has been more than sufficient to meet the full cost of generating and transmitting the electrical energy as well as to provide for all operating expenses and the fixed charges of the municipal utility equipments.

The Commission collected from the municipal utilities and other customers, for power sold, a total sum of \$16,897,866.73. This sum was appropriated to meet all the necessary fixed charges and to provide for the expenses of operation and administration. After meeting all charges there was left a net surplus of \$725,708.55.

The following statement summarizes the Commission's collections from municipal hydro-electric utilities and other power customers for the year and shows how the collections have been appropriated:

Revenue from municipalities and other power customers.....	\$16,897,866.73
Appropriated as follows:	
Operation, maintenance, administration, interest and other current expenses.....	\$13,078,003.14
Reserved for sinking fund, renewal of plant and equipment, and contingencies.....	3,094,155.04
	<u>16,172,158.18</u>
Net surplus after providing for all operating expenses and necessary fixed charges.....	<u><u>\$725,708.55</u></u>

The following is a summary of the year's operation of the municipalities which operate under cost contracts with the Commission:

Total revenue collected by the municipalities.....	\$18,798,723.43
Cost of power.....	\$9,669,789.40
Operation, maintenance and administration.....	4,088,584.18
Debenture charges and interest.....	2,902,790.13
Depreciation.....	973,649.62
	<u>17,634,813.33</u>
Total.....	<u><u>\$1,163,910.10</u></u>
Surplus for the year.....	

The above covers only the municipalities operating under cost contracts with the Commission.

The total reserves of the Commission and the municipalities for sinking fund, renewals, contingency and insurance purposes amount to \$39,040,538.32, made up as follows:

Niagara system.....	\$11,019,998.43
Georgian Bay system.....	787,198.72
Muskoka system.....	42,282.12
St. Lawrence system.....	206,470.96
Rideau system.....	83,946.47
Thunder Bay system.....	52,560.09
Ottawa system.....	3,320.67
Central Ontario and Trent system.....	1,616,729.25
Nipissing system.....	82,047.07
Service buildings, etc.....	878,007.37
	<u>\$14,772,561.15</u>
Total reserves on Commission's property.....	<u>24,267,977.17</u>
Total reserves of municipalities.....	
Total Commission and municipal reserves.....	<u><u>\$39,040,538.32</u></u>



The consolidated balance sheet of the municipal hydro-electric utilities, on page 309, shows a total cash balance of \$1,748,912.34 and bonds and other investments of \$1,329,622.58, being an increase of \$648,970.39 over the corresponding assets for 1923. The total surplus in the municipal books now amounts to \$16,170,142.49 and this is in addition to the depreciation reserve of \$8,097,834.68.

The following is a brief summary of the principal operations which are presented in greater detail in the body of this Report:

### NIAGARA SYSTEM

The Niagara system embraces all the territory lying between Niagara Falls, Hamilton and Toronto on the east, and Windsor, Sarnia and Goderich on the west, as served with electrical energy generated at Niagara Falls.

In this system, the Commission has a total capital invested of \$148,469,979.78 and accumulated reserves of \$11,019,998.43.

The actual cost of power was \$175,710.32 less than the amount of the estimate upon which the interim rates were based. The municipalities show a net surplus from the year's operation of \$774,466.04 after providing depreciation to the extent of \$825,845.55. Only one municipality shows an actual deficit during the year, of \$84.25, and this out of a total revenue of \$15,964,746.80. There has been a gradual increase in the number of customers and in the loads supplied to the municipalities.

The sixth unit of the Queenston-Chippawa plant was put into operation early in the year, and all six units are now operating at full capacity. The seventh generator is being installed and will be put into operation early in November, 1925. Contracts for unit No. 8 have been placed and the work of installing this unit is well under way. The Queenston generating plant, the Electrical Development Company generating plant and the Ontario Power Company generating plant, all of which heretofore have been operated as separate units, were this year for the first time combined, both as regards investments and operation. The average cost of generated power at which the municipalities were billed during the year included all operating charges and all fixed charges on the three plants, including, for the first time, full sinking fund and depreciation on the Queenston-Chippawa plant.

### GEORGIAN BAY SYSTEM

At the beginning of this year the Severn, Eugenia and Wasdells systems were combined and for the first time appear in this Report as a unit known as the Georgian Bay system, the year 1924 constituting the year of initial operation of this amalgamation. These three systems since 1916 have been interconnected by means of transmission lines and have been interchanging power, but experience has proven the necessity of combining these various systems into a single system in order to secure greater economy in administration and, at the same time, to eliminate the complications involved under separate operation. The results of the first year have demonstrated the advantages of such an arrangement.

As now constituted, the Georgian Bay system consists of fifty-two urban municipalities and thirteen rural power districts, including the supplying of



energy to four companies. The combined system serves that portion of the Province of Ontario which surrounds the southern end of Georgian Bay and lies to the north of the territory served by the Niagara system. It includes also the district surrounding lake Simcoe. The generating output of the three hydro-electric plants at Eugenia Falls, Big Chute and Wasdells Falls, together with the capacity of the frequency changer station at Mount Forest through which approximately 1,000 horsepower is obtained from the Niagara system, exceeds 15,000 horsepower and the average load sold during the year was 15,690 horsepower. These figures clearly indicate the fact that the various generating stations of this system are fully loaded. During the year, arrangements were completed for additional generating capacity obtainable at the South Falls development of the Muskoka system. At the beginning of the next fiscal year, the Muskoka system will be included in the Georgian Bay system. The Commission has a total capital investment in this system of \$4,383,531.42, and accumulated reserves for renewals, sinking fund and contingencies aggregate \$787,198.72.

The actual cost of power during the year was \$74,211.78 less than the estimates on which the interim rates were based, and the municipalities, after providing for depreciation of \$37,342.35, operated with a net surplus of \$109,442.56. Five municipalities operated with a small loss, aggregating \$1,205.50.

#### MUSKOKA SYSTEM

The Muskoka system is supplied from a hydro-electric power development at South Falls on the Muskoka river and serves the municipalities of Huntsville and Gravenhurst. The Commission has in this system a total capital investment of \$387,314.97, and accumulated reserves aggregate \$42,282.12.

The actual cost of power during the year was \$294.32 less than the estimates on which the interim rates were based and the municipalities, after providing full depreciation, operated with a net surplus of \$5,116.94.

As the installed equipment of this development was approximately 1,500 horsepower and as the potentiality of the Muskoka river at this situation—including the power sites at South Falls and at Hanna Chutes about a mile farther upstream—was capable of being developed to approximately 7,000 horsepower, arrangements were completed for increasing the development on this river. The plans involved the removal of one of the small units and the installation of two new units of 2,200 horsepower each at the South Falls site—known as generating station No. 1—and one unit at Hanna Chutes of 1,550 horsepower—known as generating station No. 2. Construction work covering these improvements has been progressing throughout the year and it is expected that two of the new units will be in operation and under load during the early part of next year; the Hanna Chutes unit will probably be ready for operation about the first of 1926.

#### ST. LAWRENCE SYSTEM

The St. Lawrence system serves the district immediately to the north of the St. Lawrence river between Brockville and Cornwall; the supply of power for the system being purchased from the Cedar Rapids Transmission Company, delivery being made from a point near Cornwall. Service is given to ten municipalities, six rural power districts and three companies.

The Commission in this system has a total capital investment of \$1,047,855.07 and accumulated reserves for renewals, sinking funds and contingencies aggregate \$206,470.96. In the interim bills the Commission collected \$15,040.93 in excess of the cost of operating the system. The municipalities, after providing for full depreciation, ended the year with a net surplus of \$40,825.70. Three municipalities had a loss of \$1,587.31 in the year's operations.

A company taking about 1,500 horsepower ceased operations and was disconnected from the system in March, 1924. Due to the loss of this load, the demand on the system was reduced, and on this account the average power sold during the year was somewhat less than during the preceding year.

#### RIDEAU SYSTEM

The Rideau system serves the district in the vicinity of Smiths Falls, Perth and Carleton Place. Power is available from two generating plants, one at Carleton Place and the other installed by the Commission at High Falls. Both are situated on the Mississippi river. The Commission also purchases power from the Rideau Power Company of Merrickville. The Carleton Place plant was not in operation during the past year because the capacity of this plant was not required in order to provide the power requirements of the municipalities. The system supplied five municipalities situated between the Ottawa and St. Lawrence rivers, west of Ottawa.

The water supply for this system, which is augmented by storage development on the Mississippi river, was adequate and thus the Commission avoided the necessity of operating any steam equipment to supplement the hydro-electric power supply available. The amount of power sold on the system was not materially increased over that sold in the previous year. The Commission, through the interim bills, collected from four municipalities \$8,228.15 in excess of the amount necessary. In the case of the fifth municipality, an additional charge was made of \$1,749.40. All of the municipalities finished the year with an aggregate net surplus of \$17,701.16.

During this fiscal year this system commenced to pay sinking fund—one municipality having received a supply of power from the Commission for a period of five years.

#### THUNDER BAY SYSTEM

The Thunder Bay system, which serves the district at the head of the Great Lakes, including the twin cities of Port Arthur and Fort William, with power from the power development at Cameron Falls on the Nipigon river, has had a most successful year. The records of this system for the past fiscal year show a surplus of \$52,560.09 after providing for all operating, maintenance and administrative charges, as well as providing for the full yearly interest on the entire operating capital. This surplus is applicable for contingency and renewal reserves. The total operating capital of this system for the current year is \$9,336,535.13.

The load in the city of Port Arthur—the original customer of this system—which, when the system was placed in operation four years ago, was less than 7,000 horsepower, reached a peak during the year of over 21,000 horsepower. The total average load sold on the entire system for the year was 27,254 horsepower and it is estimated that during the next fiscal year this will reach 40,000 horsepower.

During the year service was given for the first time to the Great Lakes Paper Company in Fort William. This company is now taking approximately 12,000 horsepower. During the year service was also resumed to the Nipigon Pulp Mill, which is now taking approximately 3,000 horsepower. Arrangements were also made for giving service to Nipigon village through the substation at the Nipigon Pulp Mill.

To provide for these increased demands it has been necessary for the Commission to install additional units, and consequently units No. 3 and No. 4 have been installed and placed in operation during the year. Provision has been made for installing units No. 5 and No. 6, which should be completed and under load before the close of the next fiscal year. Arrangements have also been made for constructing a dam at Virgin Falls for the purpose of creating storage on lake Nipigon.

### CENTRAL ONTARIO AND TRENT SYSTEM

The Central Ontario and Trent system serves the district bordering the north shore of lake Ontario lying between the territory on the west served by the Niagara and Georgian Bay systems and that on the east served by the St. Lawrence and Rideau systems. The nucleus of this system was the group of properties formerly controlled by the Electric Power Company, Limited, and operated by it through the agency of twenty-two subsidiary companies. These properties were all purchased by the province of Ontario on March 1, 1916, and have been operated by the Commission as trustee for the Province since June 1, 1916. Since that date the system has been greatly enlarged in order to meet the constantly growing needs of the district.

Twelve municipalities, ten of which have been connected to the system since the date of purchase, operate their own distribution systems under contracts with the Commission. These municipalities are grouped in what is termed the Trent system. This system also includes certain rural power districts.

The power supply for the Central Ontario and Trent system is obtained from a number of power developments situated on the Trent and Otonabee rivers. The power developments are made in conjunction with dams required for navigation purposes. Two new developments are now under construction at Dams No. 8 and No. 9. The development at Dam No. 8 is practically completed and since September has carried load. Satisfactory progress has been made on the generating station at Dam No. 9 and, it is expected, this will be ready early in 1925. Both of these generating stations are of the automatic type and will be controlled from the power house at Ranney Falls—Dam No. 10.

Investigations on the possibilities of the Crow river storage basin for increasing the power supply on the Trent river were continued and a report is in preparation covering the power possibilities and economic features of storage in this basin.

The quiet commercial conditions reported in 1923 continued, and there were no outstanding increases in the power load supplied.

For the purpose of financial statements the Nipissing system, referred to below, is included with the Central Ontario and Trent system. The financial results of the operations of the year are very satisfactory. After meeting all operating and maintenance costs, all interest, all sinking fund provision on



that portion of the investment for which sinking fund provision is required, provision for renewals reserve of \$138,527.44 and provision for contingencies reserve of \$40,055.60, a net surplus of \$132,945.48 was available. It is noteworthy that the total reserves which have been set up out of earnings for the benefit of these systems now amount to \$1,646,947.72.

The municipalities constituting the Trent system are considered as customers of, and are supplied with electrical energy from, the Central Ontario and Trent system. The result of their combined operation for the year shows a net surplus of \$85,029.07 after providing for \$24,991.40 depreciation. One municipality shows a loss of \$756.44.

#### NIPISSING SYSTEM

The Nipissing system comprises the town of North Bay and certain small municipalities south of lake Nipissing. It was purchased by the Province with the Central Ontario system in 1916 and has since been operated by the Commission. It is supplied with power from two hydro-electric developments on the South river at Nipissing and Bingham Chute. The new development at Bingham Chute was completed and placed in operation for the first time during the year, thus making available for this system an additional 1,200 horsepower of generating plant.

\* \* \*

In conclusion, it may be emphasized that the past year has been the most successful in the Commission's history, and apart from the menace that exists on account of an approaching power shortage, the future of the Commission never appeared more promising. Attention is directed to a remarkable statement in the introduction to Section X, dealing with the Municipal Accounts, in which, at page 303, will be found a list showing that thirty-nine municipalities have now quick assets such as cash, bonds, accounts receivable and inventories which exceed in value the total liabilities incurred by these municipalities in connection with their municipal electric utilities. This is a very striking and most encouraging feature of the Commission's success. Twenty-four other municipalities have so nearly reached this status that it is probable that most of these also will be able to be entirely out of debt by the close of next year.

Respectfully submitted,

ADAM BECK

*Chairman*



TORONTO, ONTARIO, March 31st, 1925.

HON. SIR ADAM BECK, KT., LL.D., M.L.A.,

*Chairman, Hydro-Electric Power Commission of Ontario,*

*Toronto, Ontario.*

SIR,—I have the honour to transmit herewith the Seventeenth Annual Report of the Hydro-Electric Power Commission of Ontario for the fiscal year ended October 31st, 1924.

I have the honour to be,

Sir,

Your obedient servant,

W. W. POPE

*Secretary*



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## MAP

TRANSMISSION LINES AND STATIONS OF THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO - - - - -	At end of volume
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# SEVENTEENTH ANNUAL REPORT

## OF THE

# Hydro-Electric Power Commission of Ontario

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## SECTION I

### LEGAL PROCEEDINGS

**H**IS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, in 1924 passed four special Acts relating to the work of the Hydro-Electric Power Commission of Ontario. These Acts are reproduced in full as Appendix I to this report. The short titles to the said Acts are as follows:

The Power Commission Act, 1924, Chapter 23.

The Power Commission and Companies Transfer Act, 1924, Chapter 24.

The Rural Hydro-Electric Distribution Act, 1924, Chapter 25.

The Hydro-Electric Railway Act, 1924, Chapter 26.

The agreements between the Hydro-Electric Power Commission of Ontario and the Municipalities and Corporations mentioned in the list hereunder given were approved by Order-in-Council dated the 26th day of June, 1924.

#### TOWNS

Kingsville.....	May 25, 1924
Meaford.....	Feb. 5, 1923

#### VILLAGES

Blyth.....	Dec. 26, 1923
Brussels.....	Dec. 17, 1923
Cayuga.....	Mar. 10, 1924
Clifford.....	Dec. 3, 1923
Courtright.....	Sept. 5, 1923
Jarvis.....	Oct. 10, 1923
Paisley.....	Mar. 3, 1923
Stouffville.....	May 7, 1923
Sutton.....	May 28, 1923
Victoria Harbor.....	Aug. 24, 1923
Wheatley.....	Jan. 2, 1924

#### POLICE VILLAGES

Warkworth.....	Apr. 17, 1923
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#### TOWNSHIPS

Barton.....	Nov. 20, 1922
Chinguacousy.....	Aug. 13, 1923
Darlington.....	Oct. 5, 1923
Delaware.....	Feb. 5, 1923
Eldon.....	Aug. 6, 1923
Esquesing.....	Feb. 14, 1924
Flos.....	Mar. 10, 1923
Georgia.....	Apr. 29, 1924
Glanford.....	Nov. 17, 1923
Kenyon.....	Oct. 4, 1923
King.....	Sept. 8, 1923
Malahide.....	Apr. 2, 1923
Mersea.....	Dec. 17, 1923
Middleton.....	Apr. 16, 1923
Mosa.....	Apr. 21, 1923
Murray.....	Oct. 26, 1923
Niagara.....	Aug. 30, 1923
North Gwillimbury.....	May 7, 1924

## TOWNSHIPS

North York.....	Sept. 18, 1923	Sunnidale.....	Mar. 1, 1923
North York.....	Oct. 8, 1923	Tay.....	Dec. 15, 1923
Sarnia.....	Apr. 30, 1923	Tilbury.....	Mar. 5, 1923
Sombra.....	July 7, 1923	Trafalgar.....	Oct. 1, 1923
South Dumfries.....	July 16, 1922	Wellesley.....	Sept. 4, 1923
Southwold.....	Mar. 5, 1923	Williamsburg.....	Dec. 1, 1923

## CORPORATIONS

American Cyanamid Company.....	Mar. 22, 1923
American Cyanamid Company.....	June 1, 1923
Canada Wire & Cable Co., Ltd.....	Sept. 1, 1923
The Canadian Salt Co., Ltd.....	Jan. 1, 1923
The Dominion Petroleum Co., Ltd.....	Sept. 1, 1923
The Guaranty Investment Corporation, Ltd.....	Dec. 4, 1923
The Hamilton Cataract Power, Light & Traction Co., Ltd., and Corporation of the Township of Trafalgar.....	Aug. 7, 1923
The H. O. Cereal Company, Inc.....	Jan. 8, 1923
The Milton Pressed Brick Co., Ltd.....	May 28, 1923
Mohawk Sand & Gravel Co., Ltd.....	May 7, 1922
Walter Warren Thomson.....	Feb. 1, 1923

Applications for highway and other crossings over the various lines of electric railways operated by the Commission and the construction and maintenance of power line crossings over other railways occasioned numerous appearances before the Ontario Railway and Municipal Board. In a number of grade separations and other proceedings before the Board of Railway Commissioners for Canada the Commission was a party or materially interested.

For the railways operated by the Commission numerous claims were collected. A number of agreements were prepared and other matters dealt with in relation to different phases of operation. Contracts for equipment were drawn.

A large number of contracts were drawn for the purchase or construction of plant and machinery required in the power developments of the Commission. Some of these, notably those connected with Queenston, involved considerable sums of money and required corresponding care.

Standard forms of agreement for several purposes were drafted and settled and are now in regular use.

Numerous power contracts were considered from time to time and revised or renewed as necessary.

The distribution of power to the large number of municipalities served by the Commission raised from time to time many different questions. In each case the interests of all parties were duly considered and an equitable solution worked out.

Several agreements were completed covering re-arrangement of rights and properties between local authorities and between the Commission and different municipalities. This was done in order to meet the wishes of the municipalities and ensure more economical service.

Under the Power Commission and Companies Transfer Act, 1924, a great deal of work was done in preparing for and completing the transfers therein authorized. This will make possible the amalgamation of the various power developments in the Niagara system and will simplify operating conditions where previously the different companies had to be kept distinct. It will enable the Commission to consummate the unification in view when it negotiated the purchase of the Toronto Power Company, popularly referred to as the "Clean Up."



In addition to the special legislation referred to above, amendments were secured to the Public Utilities Act and the Local Improvement Act. These were obtained at the request of a number of municipalities to meet exigencies in their operations. With the more widespread use of electricity there has come a steady demand for street lighting in the suburban sections of rural municipalities. This made necessary the extension of certain benefits under the Local Improvement Act to townships.

## **RIGHT-OF-WAY AND LANDS**

### **Land Survey and Title Records**

Considerable progress has been made during the past year in transferring and recording deeds to the title record book; over two hundred were recorded, including all current deeds. In addition one hundred and thirty plans and descriptions were prepared for right-of-way on transmission lines and power development.

In addition to the above about one thousand records of deeds and various easements were indexed.

### **Right-of-Way**

During the year development work has been carried on at Dam No. 8 and Dam No. 9 on the Trent river. This work necessitated prolonged negotiations with the Department of Railways and Canals at Ottawa as to flooding and damage claims and rights on the Trent river as well as the purchase of several parcels of land from private owners.

Negotiations were also carried to a successful issue with the Council of the city of Toronto and with the Toronto Harbour Board for the closing of the old Lake Shore road east of the Humber river, and Cliff road and the conveyance of these roads to the Commission to provide a right-of-way for a new tower line to Strachan Avenue station and the removal of the existing tower line on the lake front to this new right-of-way.

The right-of-way for a new high-tension tower line from Cameron Falls to Port Arthur was also secured during the past season. Part of this right-of-way was purchased and in other cases easements for tower rights were secured.

The new line from Sarnia to St. Thomas has been laid out and a considerable portion of the right-of-way as well as a new station-site at Sarnia has been arranged for. As this site and a part of the right-of-way were formerly part of the Sarnia Indian Reserve, the acquisition of same was carried on through the Department of Indian Affairs at Ottawa.

The crossing of navigable waters with cables or overhead wires was arranged with the Departments of Railways and Canals and Public Works at Ottawa in the cases of Matchedash bay, Rideau river, Rideau canal, Grand river and two over the Thames river. Licenses of Occupation from the Provincial Crown Lands Department had also to be secured in these cases.

The sale of the Essex County system to the various municipalities served by that system rendered it necessary to prepare agreements, bills of sale, etc., and close negotiations with the municipalities of Harrow, Essex, Sandwich, Kingsville and Leamington.

The collection of a large portion of the Commission's rents was taken over by this department during the year. Some forty houses belonging to the Commission in the city of Toronto and elsewhere have been repaired and proper leases arranged. Leases have also been prepared for all the Commission's other properties.

The moving of poles on highways undergoing repairs by the government and other commissions and various municipalities has involved the carrying on of a great deal of correspondence.

Station sites have been purchased at the following places: Decewsville, Dam No. 8, Trenton, Glendale, Fletcher, Port Arthur, Port Colborne, Walton and Windsor.

Properties no longer required by the Commission at Chippawa, Kitchener, St. Ann, Stamford and Port Arthur have been sold, as well as some six parcels formerly owned by the Toronto and York Radial Railway system.

Right-of-way for low-tension lines, including pole, anchor and tree-trimming rights has been arranged for on the following lines:

Dam No. 9 to Meyersburg  
Warkworth substation to Warkworth  
Meyersburg Junction to Sidney  
Mount Forest to Harriston  
Junction pole to Meaford  
Waubaushe to South Falls  
Perth to Smiths Falls  
Leamington to Wheatley  
Ruthven to Leamington  
Preston to Kitchener  
Essex to Walkerville  
Milton to Guelph Junction  
Lythmore to Decewsville

Decewsville to Cayuga  
Hagersville to Jarvis  
Junction pole to Lynden  
Junction to Broughdale  
Harriston to Clifford feeder line  
Walton to Brussels  
Walton to Blyth feeder line  
Seaforth to Walton  
Aylmer to Springfield  
Puce to Essex  
Telephone line Dams Nos. 8, 9 and 10  
Dams Nos. 8, 9 and 10 delivering power to  
lines R and G.

Work on the following rural lines has been carried on during the year and in the majority of cases has been completed: Amherstburg, Barton, Beamsville, Blenheim, Bolton, Bowmanville, Brant, Chatham, Delaware, Dorchester, Dundas, Georgetown, Homer, Keswick, Kingston, Lansing, London, Lynden, Mariposa, Nepean, Nottawasaga, Preston, Ridgetown, St. Jacob, St. Thomas, Saltfleet, Sandwich, Scarboro, Stayner, Tavistock, Tillsonburg, Trenton, Wallaceburg, Walton, Waterdown, Williamsburg.

Many claims for damages in cases of accident and otherwise have been adjusted.

The department has had charge of the several bond issues made by the Commission during the year.

#### Summary of transactions:

Number of parcels of land purchased.....	58
Number of tower rights secured .....	42
(covering 138 towers)	
Number of overhang rights secured .....	34
Number of pole agreements secured.....	115
(covering 769 poles)	
Number of anchor agreements secured.....	141
(covering 356 anchors)	
Number of tree-trimming agreements secured .....	192
(covering 1,504 trees)	
Number of damage claims settled.....	74



## SECTION II

### OPERATION OF THE SYSTEMS

The demand for power during the past year has continued to increase on practically all systems, but the effect of the quiet industrial conditions is apparent in the smaller rates of increase. The total amount of power generated or purchased by the Commission during the past year exceeds the large total of three billion kilowatt-hours.

The generating capacity of the Commission's hydro-electric stations has been considerably increased during the year by the completion of the sixth unit at Queenston; by the construction of new power houses, at Dam No. 8 on the Trent river, and at Bingham Chute on the Nipissing system; and by the installation of additional generators, or alterations to plant, increasing the capacity at Cameron falls, Nipissing, and Eugenia falls. These changes have increased the aggregate normal operating capacity of the Commission's plants by over 107,000 horsepower. While this figure may seem large, it represents only a fifteen per cent increase in the generating capacity of the Commission's plants, which would be absorbed by the increase in demand for power during one normal year.

Speaking generally, during the past year the increase in load has been below normal, and less than the increase in generating capacity. In the Georgian Bay system however the increase of 1,200 horsepower in the capacity of the Eugenia Falls plant has not been sufficient to relieve the situation. In the Muskoka system the extension to the South Falls power house has not yet been completed. This last mentioned plant is still operating under heavy loads with no margin to take care of accidents to equipment or to permit taking generators out of service long enough for major maintenance work. The generating capacity of the Thunder Bay system was doubled by the addition of the third and fourth units at Cameron falls, but the load has also doubled and continues to increase. On the Central Ontario system the generating capacity was increased by 6,430 horsepower by the completion of a new power house near Meyersburg, but this represents only eighteen per cent increase in system capacity, and the greater part of this would be required by a normal year's growth in load. Taking the systems as a whole, however, a better operating margin now exists between the capacity available and the power required.

Graphs are given in connection with this report showing the peak loads by months on each system for several years, and an accurate idea may be obtained from these as to the amount and rate of growth of the load on each system.

Details as to the changes on each system are given under their respective headings, but summarizing the operation of all systems, it may be said that operation during the year has been carried on very successfully, with few interruptions to service, and with no serious damage to the Commission's equipment from lightning, electrical disturbances, or other causes. Generating plants, and the lines and equipment generally, have been maintained, and now are in efficient operating condition and are prepared to meet any increase in the demand for power up to their full normal capacity.

It may be in order to add to this last statement a warning that the full capacity of the Commission's generating plants is not sufficient to provide for any abnormal increase in the demand for power, such as may follow an industrial revival, and is even inadequate to meet the needs of power consumers during a year of normal growth. Further sources of power must be provided during the coming year if restrictions on the supply to consumers are to be avoided.

## NIAGARA SYSTEM

For the purposes of this report, on account of the actual operating conditions, the Ontario Power Company system and the Toronto Power Company system (with the exception of export power) are combined under the Niagara system. The interconnections between the generating plants (i.e., the Queenston plant, the Ontario Power Company plant, and the Toronto Power Company plant) are such that load may be quickly transferred from one plant to the other. In addition, there are many other points of interconnection on the lines, and at a number of stations, which are utilized for this purpose, all depending on the operating conditions and plant loading at the moment. In Toronto, for instance, the Toronto Hydro-Electric system has installed several interconnecting links between the Commission's stations and lines, and the system formerly known as the Toronto Power Company system, and sections of Toronto load can be switched from one system to the other at will over these tie connections.

For the reasons stated above, separation of the load supplied to Ontario Power Company system and Toronto Power Company system from other loads on the Niagara system would be meaningless, the variations of the load on any system probably indicating merely a transfer of load, not a real change in load conditions.

In previous annual reports, a graph has been included showing the monthly peak loads of the Niagara system back to 1910. A graph has also been given showing the kilowatt-hours taken by the Niagara system since 1918. In the present report the graph has been continued, but, for the past fiscal year, the power supplied to customers on the Ontario Power Company and Toronto Power Company systems on the Canadian side has been included as part of the Niagara system load. This additional load includes that part of the Toronto load which is fed over the Toronto Power Company transmission lines and through Davenport Road station, also the amount supplied to municipalities and power customers in the Niagara Falls district from the Toronto Power Company and Ontario Power Company distributing lines. The inclusion of all Canadian loads fed from the interconnected generating plants and lines places the graphs for the Niagara system on a more logical and consistent basis, and, while it makes comparison between the past year and previous years more difficult, it will make future reports more clear and comprehensive.

The demand for power from the municipalities on the Niagara system has

## TOTAL POWER GENERATED AND PURCHASED

Plant	Normal operating capacity horsepower	Peak load horsepower	Total output during fiscal year kilowatt-hours
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## HYDRO-ELECTRIC GENERATING PLANTS

Niagara: Queenston plant.....	357,000	293,566	1,102,830,000.
Niagara: "Ontario Power" plant.....	183,500	179,490	866,966,700
Niagara: "Toronto Power" plant.....	145,000	147,050	556,866,000
Sydney, Dam No. 2.....	4,020	4,960	17,526,200
Frankford, Dam No. 5.....	3,485	3,686	14,299,450
Meyersburg, Dam No. 8.....	6,430	5,965	2,463,400
Ranney Falls, Dam No. 10.....	9,650	12,466	42,121,380
Campbellford, Dam No. 11.....	4,020	4,128	16,337,350
Heely Falls, Dam No. 14.....	12,060	15,952	33,612,780
Auburn, Dam No. 18.....	2,010	2,573	10,024,730
Fenelon Falls, Dam No. 30.....	1,000	952	4,396,780
Cameron Falls.....	50,000	34,200	121,925,080
Big Chute.....	5,760	5,790	23,268,460
Eugenia Falls.....	7,370	7,064	15,602,200
Wasdells Falls.....	1,000	1,145	4,579,214
High Falls.....	2,400	2,782	5,238,480
South Falls.....	1,400	1,468	5,442,700
Nipissing.....	1,740	1,960	5,573,914
Bingham Chute.....	1,200	1,319	1,623,240
Carleton Place.....	400	375	180,518
Totals, hydro-electric plants.....	799,445	726,891 <i>a</i>	2,850,878,576

## STEAM PLANTS

Toronto steam plant.....	20,000	.....	.....
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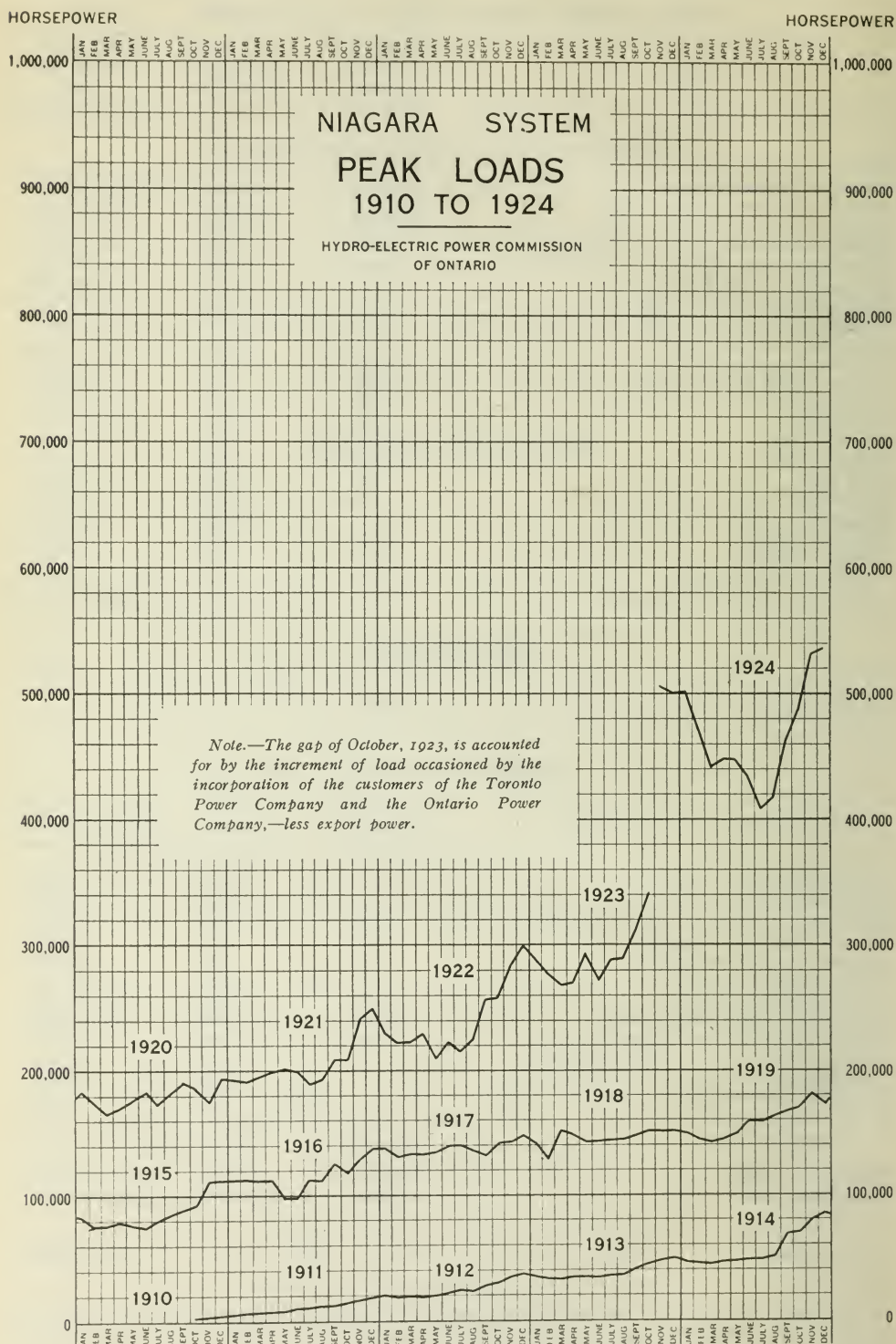
## POWER PURCHASED

Company or Commission	Contract amount horsepower	Peak horsepower	Total purchase kilowatt-hours
Canadian Niagara Power Co.....	20,000	21,984	72,481,300
Hamilton Cataract Power Co.....	.....	968	1,234,000
Orillia Water, Light & Power Commission....	1,200	3,016	4,608,200
Hanover Cement Company.....	500	579	318,240
Corporation of Bracebridge.....	150	150	514,406
Cedar Rapids Power Co.....	6,636	6,636	19,702,500
Rideau Power Company.....	650	1,000	3,150,504
Ottawa and Hull Power & Mfg. Co.....	14,500	13,600	45,912,000
Campbellford Water & Light Commission.....	1,609	2,212	2,262,850
Peterboro Hydraulic Power Company.....	.....	2,915	520,065
Canadian General Electric Co., Peterboro....	.....	1,340	196,000
Corporation of Fenelon Falls <i>b</i> .....	.....	375	22,400
Total purchased.....	45,245	54,775 <i>a</i>	150,922,465
Grand total, 1924.....	864,690	781,666 <i>a</i>	3,001,801,041
Grand total, 1923.....	756,982	756,668 <i>a</i>	2,842,416,705
Increase.....	.....	.....	159,384,336

*a* Peak totals given are direct sums of plant peaks as shown without allowance for diversity in time. Therefore these totals do not indicate the demands on the various systems where there is more than one plant supplying power.

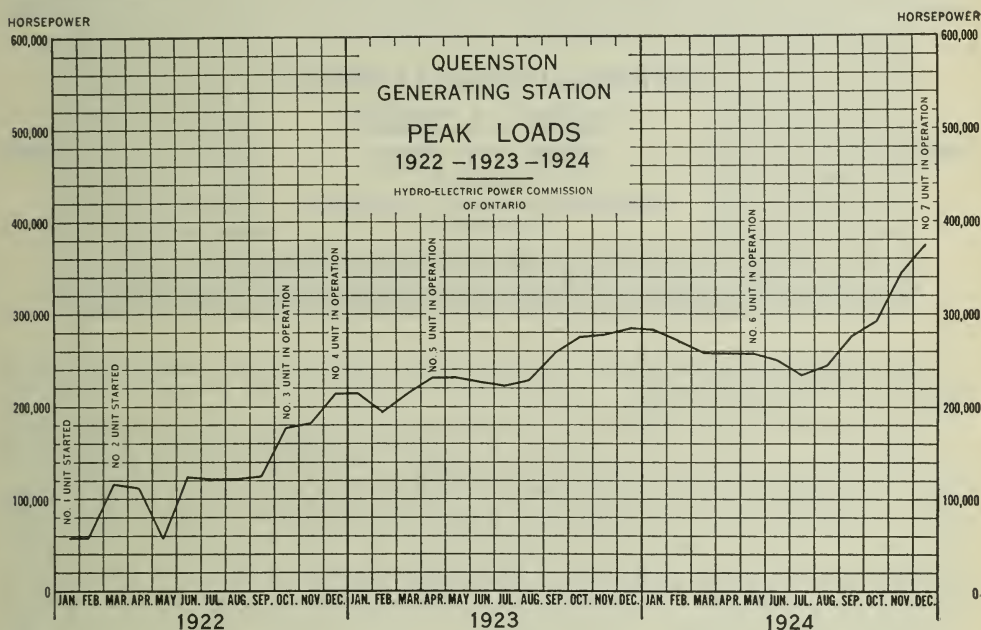
*b* Power supplied to Central Ontario and Trent system under exchange arrangement.





continued to increase during the year, but the industrial depression prevailing generally is reflected in a slower rate of increase and, taking the system as a whole, the increase in load on the part of the municipalities has been largely offset by the decrease in some of the large power consumers in the Niagara district.

The completion of No. 6 unit at Queenston power house, which was placed in service May 15, 1924, added 62,000 horsepower to the available capacity of the system. The reconstruction of No. 15 unit at the Ontario Power Company plant added another 12,500 horsepower to the generating capacity. In addition to this, 20,000 horsepower was released June 1 for use by the municipalities through the cancellation of a contract with a large power consumer in the Niagara district. This increase in the power available has exceeded the increase in the demand for power by the municipalities during the year, so that there is now a better operating margin between the demand and the supply than existed during the previous year.



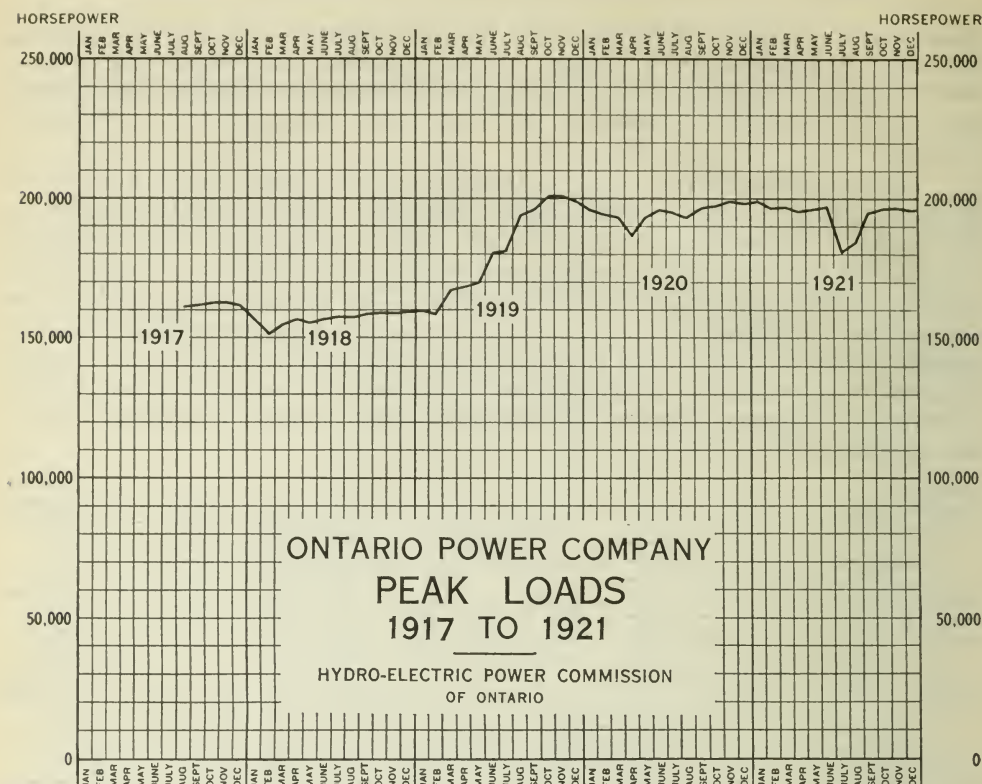
## QUEENSTON GENERATING STATION

### Plant No. N20

Since the 1923 Report, the new intake at Chippawa has been completed and was put into service for last winter's ice season. The results from this one season's operation were very satisfactory and no ice was drawn in from the Niagara river.

On May 15, 1924, No. 6 unit was placed on load, increasing the station capacity by sixty-two thousand horsepower. Other new equipment includes the auxiliary governor pump, which is fitted with a small Johnson valve and turbine. This pump cuts in automatically if the governor pressure drops, and remains running until shut down by hand, thus affording protection against overspeed which might result from lack of sufficient pressure to hold the turbine gates.





An additional high-tension line was connected into the station, giving a total of six 110,000-volt lines.

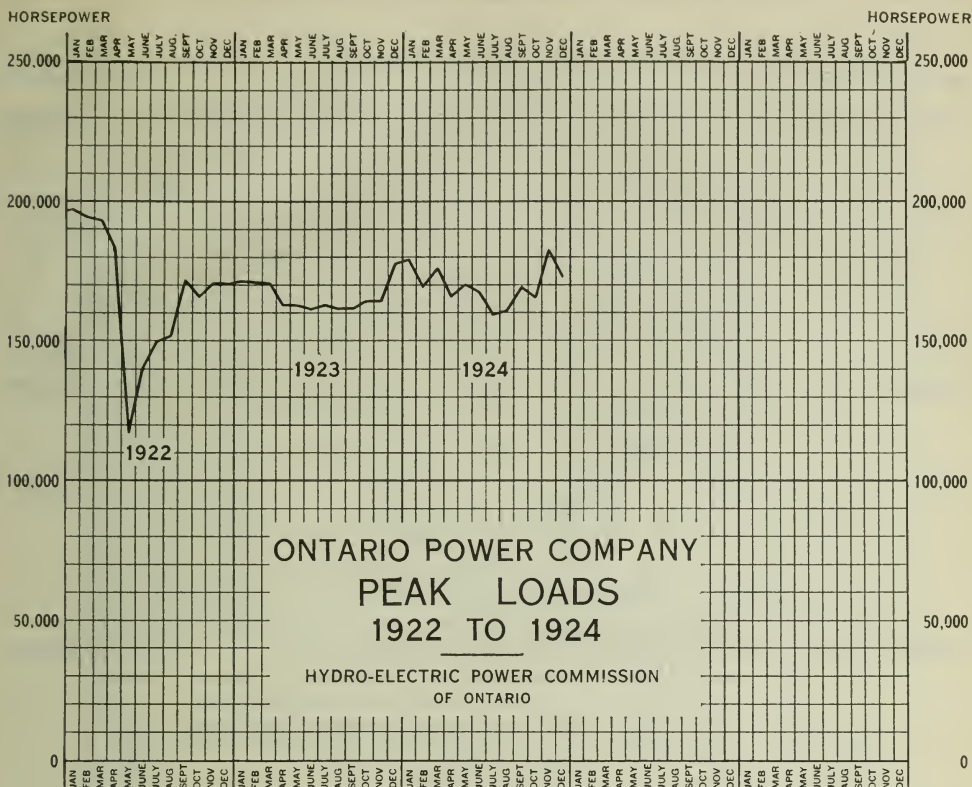
The measurement of power in a large generating station, such as Queenston, is a problem in itself. A specially-designed, totalizing, graphic meter was designed and built by the Commission's staff, and is now in use in measuring the combined output of this, the world's largest hydro-electric station. This meter includes all the best features of design found by long experience to be most desirable and is, in all probability, the largest and most accurate commercial meter in use anywhere. It will measure a total load of 500,000 kilowatts within a fraction of one per cent. The construction is such that the accuracy of the meter is permanent.

Two new lathes were purchased for the machine shop. These tools are motor-driven and are of the latest type. A large boring-bar was also purchased to handle machining of the turbine guide bearings. A number of small tools and other appliances, necessary in a shop handling general work, were constructed by our own staff.

## ONTARIO POWER COMPANY GENERATING STATION

### Plant No. A1

No. 15 unit, which was destroyed by an accident in April, 1922, has been rebuilt. The turbine was reconstructed from parts of the former equipment used in this section of the power house without any important changes in design. The governor was redesigned and built to conform to the Commission's standards, and the governor pressure supply system was rearranged so that it ties in with



the main governor system of the power house, thus affording flexibility in operation, and increasing the reliability of the service. The generator was built and installed by the Canadian General Electric Company, the entire unit being placed on load on December 1, 1923.

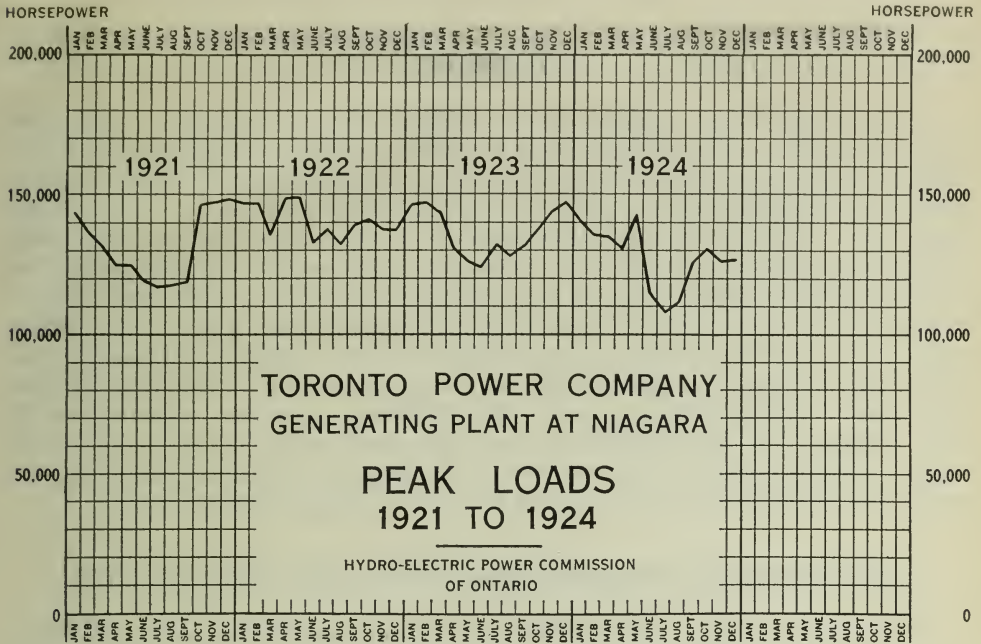
The old No. 16 draft tube was filled solid with concrete up to the floor level. Proper reinforcement was provided to withstand the upward pressure of the river water under extreme high tail-water conditions.

The old concreting plant, used during the construction of the power house, was dismantled and the timber from it salvaged where possible. New drain valves were installed on units Nos. 1 to 15 so that the drains from the generator pits could be opened and closed from the operating floor level. Repairs were made to the windings of Nos. 5 and 6 generators following the breakdown of coils in these machines. No. 5 generator has now been completely rewound, and about half of the old winding in No. 6 has been replaced. The remainder of the old winding will be removed if any further trouble develops. New relief valves were installed on Nos. 5 and 10 penstocks. These valves were redesigned from the original equipment and are now made to operate direct from the gate mechanism of the turbines instead of by pressure rise in the penstocks. This greatly improves the reliability of the valves, and, due to the changes in design, there will be a considerable saving in maintenance and operating expense.

On May 11, No. 2 pipe line was shut down for inspection. This pipe line is eighteen feet in diameter, built of reinforced concrete. The entire pipe was found to be in first-class condition, and no repairs were necessary. During the shut-down of the pipe, No. 2 surge tank was cleaned out and inspected. It was also found to be in first-class condition.







## TORONTO POWER COMPANY GENERATING STATION

### Plant No. B1

The installation of differential relays, started last year, was completed and now all of the generators are provided with this form of protection. Neutral resistances were provided for each of the different sections of 12,000-volt load. Since this installation was made, two generator windings broke down, and in both cases the machines were cleared from the load without any damage to the iron. Previous to the installation of the differential relays, the failure of generator windings in this plant had almost always been attended by serious damage to the stator iron of the machine, involving expensive and long drawn-out repairs.

The main power-house elevator was changed over to automatic control.

No. 11 generator was partly rewound and the stator iron damaged by previous failures was removed. This machine is now in first-class condition.

The telephone equipment throughout the station was revised and new protective apparatus installed where necessary. A number of telephones operating on the automatic exchange at the Ontario Power Company plant were installed, connecting with the Ontario Power Company board through an underground cable.

An examination was made of the tail-race tunnel for the first time in eighteen years. The tunnel was found to be in good condition, except that at one point near the middle, a section of the floor had been washed away. Repairs were not made on account of lack of time, but this matter will receive attention during the coming year.

Miscellaneous equipment throughout the power house was rebuilt and overhauled, where necessary, so that the end of the present year finds the entire station in considerably better condition than it was last year.



## DISTRIBUTING LINES AND STATIONS IN NIAGARA FALLS DISTRICT

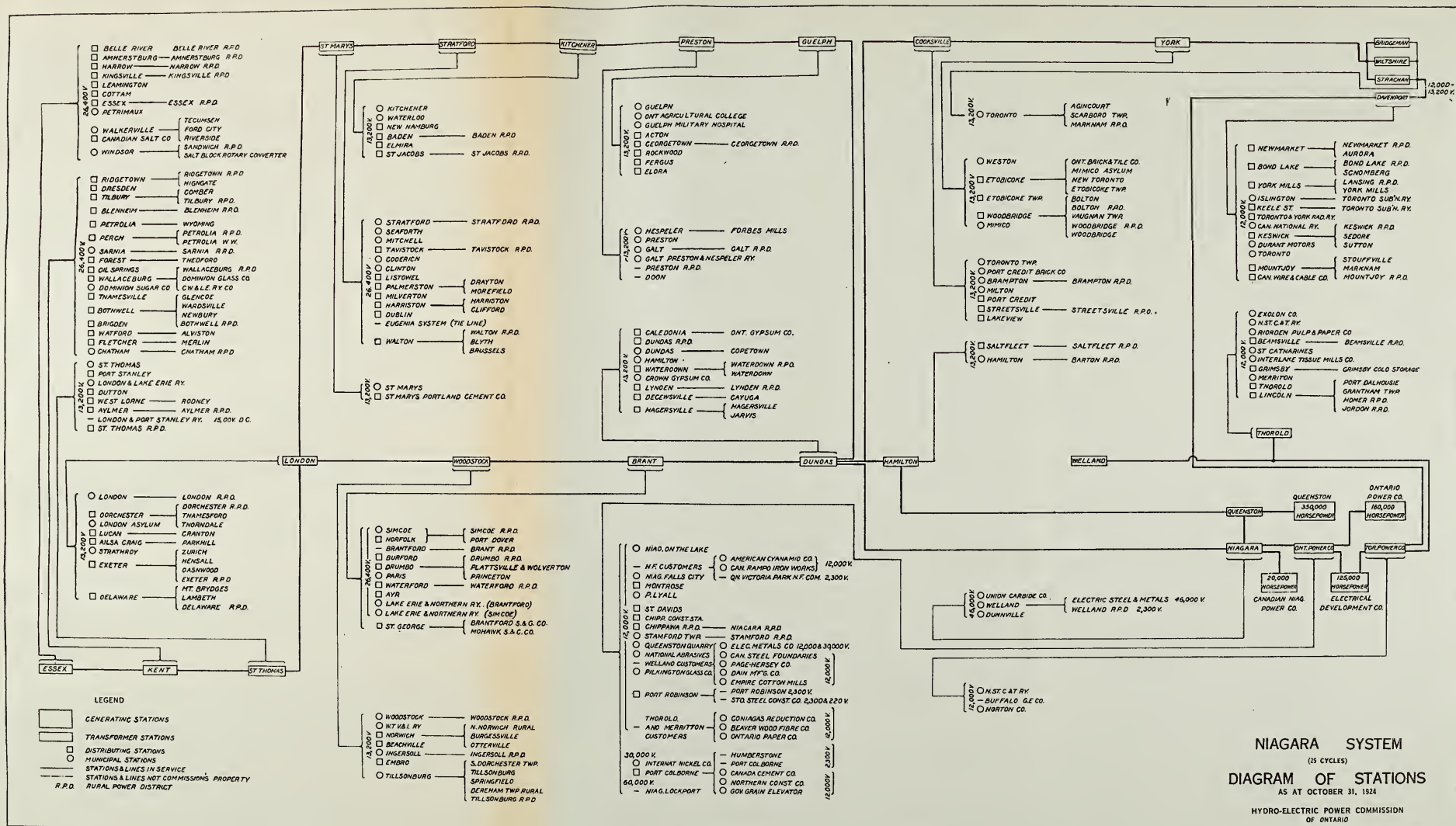
Several important changes in the Ontario Power Company transmission lines were made. The towers of No. 1, 60,000-volt line supplying power to the Niagara, Lockport & Ontario Power Company, were equipped with steel extensions and the line equipped with suspension insulators instead of the previous pin-type insulators. At the same time, the temporary construction over the Queenston-Chippawa canal was replaced by permanent steel towers. The reconstructed line has a much higher factor of safety than the old line, and should result in increased reliability of service and decreased maintenance costs. The 12,000-volt lines supplying power to the Ontario Paper Company, Thorold, were rearranged to clear the right-of-way for the construction of the new Welland ship canal. The 30,000-volt lines at Port Colborne were also relocated on the same account. A new 12,000-volt, outdoor-type station, erected on the St. Catharines-Queenston road, was tied in on the Niagara-on-the-Lake line to supply power for the district in, and around, St. David village and Queenston.

## TRANSMISSION, TRANSFORMATION AND DISTRIBUTION

The power supply to the 110,000-volt system from the generating plants at Niagara has been practically continuous, power being completely off the system only once during the year for the space of six minutes. Expressed as a percentage, power was on the system 99.998 per cent of the total time.

The subdivision of the system into two sections, a change made late in the previous year, has worked out most satisfactorily, giving greater reliability of service, limiting short-circuit current and the resultant strains to equipment which occur on the failure of insulators or other apparatus on the system.

The No. 5 and No. 6 lines from Queenston (110,000 volts) are carried from Queenston to Hamilton below the escarpment, following an entirely different route to that used by the lines from Niagara station to Dundas station, which are above the escarpment. At the beginning of the past fiscal year, No. 5 line was in operation as far as the Hamilton high-tension station, which is located to the south of Burlington bay. No. 6 line had not been permanently connected in at Queenston, but, from a temporary connection to No. 5 line just outside Queenston, was in service as far as Hamilton station. As additional lines were needed satisfactorily to take care of the load conditions during the winter months of 1923-24, the two unused, 60,000-volt, Toronto Power Company circuits across Burlington bay were reinsulated with pin-type insulators for 110,000 volts, and the No. 5 and No. 6 Queenston lines were connected to the reinsulated circuits. To the north of Burlington bay, the towers of the new permanent line had been completed as far as Nelson Junction (approximately four miles), and the two circuits were carried on these to tie in with the 110,000-volt lines between Dundas and York stations. A steel-tower line had been constructed from Dundas to York on which one circuit was already in service carrying part of Toronto load. This circuit (on the north side of tower and known as BB circuit) was opened at Nelson Junction, and No. 6 line connected to the section running back into Dundas station, No. 5 line being connected to the section carrying on to York station, and connecting there with lines to Toronto. A new circuit on the south side of the tower was also put in service between Dundas and York







at this time—November 12, 1923—making an additional line of supply. The connections to No. 6 line were revised at the Hamilton Station Junction, so as to carry No. 6 line direct through to Dundas, by route described, without tapping in at Hamilton station. The No. 5 line was made to loop through the Hamilton station and carried from there direct to York.

At York the line switching structure was revised to accommodate the new Dundas to York circuit. The north circuit of the old line (known as the B3 circuit) was disconnected from York structure and tied in to one of the 110,000-volt circuits for Wiltshire and Bridgman stations.

The system was operated throughout the winter of 1923-24 with the above arrangement of lines, and operating conditions were naturally improved on account of the additional lines of supply to Dundas and York stations, giving increased reliability of service, reducing transmission losses and giving better control of voltage regulation.

The permanent structures across Burlington bay were completed and placed in service April 20, and the temporary circuits on the Toronto Power steel poles were disconnected, but left in readiness for emergency.

On May 4 the No. 6 line at Queenston was connected in to the plant through the necessary switching equipment, and made available for the output of No. 6 generator which was put in service a few days later—on May 15.

In Toronto, two new high-tension stations have been completed and were placed in operation October 9, 1924. These are of the out-door type, having a capacity of 30,000 kv-a. each, and are located at Bridgman avenue in the north of the city, and Wiltshire avenue in the north-west part of the city.

A new double-circuit, 110,000-volt line was built from York station to Islington, connecting at York station with two lines from Dundas, and at Islington, connecting with two circuits on the Toronto Power Company's steel-tower line. These two lines on the Toronto Power towers were formerly rated at 60-kv., but had not been in service for some years. They were reinsulated for 110,000 volts and connected into the new stations at Wiltshire avenue and Bridgman avenue.

The temporary York high-tension station, which had been damaged by fire on December 4, 1922, was rebuilt as an out-door station, having the power transformers, the 110,000 volt switches, the 13,200-volt switches and bus located outside, with the metering and control apparatus inside. Portions were placed in service from time to time, but the station was completed and put into operation December 9, 1923.

At Brant high-tension station changes were made in the high-tension bus, which improve operating conditions, and facilitate maintenance work and the cleaning of the high-tension equipment without interrupting the supply of power. The 110,000-volt, horn-gap towers on two of the high-tension lines were redesigned with sphere-gap equipment, and placed in service October 4, 1924. It is expected that this change will greatly improve the protective features of the 110,000-volt, electrolytic, lightning arresters.

At Kitchener, the connection of the second 110,000-volt line to the Kitchener high-tension station bus, through the necessary switching equipment, has made a decided improvement in the operation of the stations on the north loop between Dundas and London.

On the high-tension lines and distributing lines, the usual inspection and maintenance work was carried out during the year. On the 110,000-volt and 46,000-volt lines, inspection was made of 150,620 insulators, of which 2,333 tested as defective and were removed. This gives a percentage of 1.55 per cent defective and eliminated. On the four 110,000-volt lines between Niagara station and Dundas station, the loops were all reinforced, and new and additional clamps installed.

During the year, electric storms were reported on thirty days, nine of which were of a general nature, traversing the greater part of the system. Wind storms, of cyclonic proportions, and covering small sections of the system, were reported on several occasions; one of these in the Stratford district, and another in the Cooksville district, caused some damage to low-tension distributing lines, and inconvenience to local customers. The high-tension transmission lines were not affected by any of these storms.

The capacity of Kent high-tension station has been increased by the installation of three 2,500 kv-a. transformers, replacing three of 1,250 kv-a. capacity. This change was made January 20, 1924.

At Brant station the capacity was also increased by the installation of three 5,000 kv-a. transformers, installed outside of the station, and placed in service September 20, 1924.

During the year a number of changes have been made in the capacity of the distributing stations as follows:

Tilbury.....	Three 75-kv-a. transformers replaced by three 150-kv-a.
Acton.....	Three 75-kv-a. transformers added.
New Hamburg.....	Three 75-kv-a. transformers added.
Etobicoke Township Station.....	A second 300-kv-a., three-phase, outdoor unit added.
Delaware.....	Three 25-kv-a. units replaced by three 50-kv-a.
Woodbridge.....	One 150-kv-a., three-phase, outdoor unit added.
Bond Lake.....	A second bank of three 300-kv-a., single-phase units added.
Wallaceburg.....	Three 150-kv-a. units replaced by one 1,500-kv-a., three-phase unit.
St. Jacobs.....	One 75-kv-a., three-phase, outdoor transformer replaced by one 150-kv-a., three-phase, outdoor unit.
Thorold.....	Increased by addition of three 250-kv-a., single-phase units.
Blenheim.....	Three 75-kv-a., single-phase units replaced by three 150-kv-a., single-phase units.

New distributing stations have been placed in operation with transformer equipment as follows:

Waterdown.....	One 300-kv-a., three-phase, outdoor unit.
Lakeview Railway Station.....	Three 185-kv-a., single-phase units.
Glendale.....	One 150-kv-a., three-phase, outdoor unit.
St. Davids.....	One 300-kv-a., three-phase, outdoor unit.
Walton.....	One 150-kv-a., three-phase, outdoor unit.
Decewsville.....	One 300-kv-a., three-phase, outdoor unit.
Broughdale.....	Three 150-kv-a., single-phase units.



## NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1922-1923-1924

Municipality	Peak load in horsepower			Change in load, 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
Acton.....	261.3	352.5	359.2	.....	6.7
Agincourt.....	.....	33.5	50.9	.....	17.4
Ailsa Craig.....	112.6	126.0	64.3	61.7	.....
Alvinston.....	83.3	85.7	135.0	.....	49.3
Ancaster Township.....	.....	185.7	225.2	.....	39.5
Aylmer.....	217.7	253.3	310.0	.....	56.7
Ayr.....	84.4	91.0	73.4	17.6	.....
Baden.....	155.5	250.6	252.7	.....	2.1
Beachville.....	268.0	353.8	400.5	.....	46.7
Belle River.....	.....	53.6	65.6	.....	12.0
Blenheim.....	202.4	174.0	307.0	.....	133.0
Bolton.....	122.7	134.9	94.1	40.8	.....
Bothwell.....	124.0	126.8	149.0	.....	22.2
Brampton.....	1,072.3	1,249.3	1,300.3	.....	51.0
Brantford.....	5,811.0	7,292.0	7,384.8	.....	92.8
Brigden.....	35.5	42.3	133.5	.....	91.2
Burford.....	58.7	68.6	83.6	.....	15.0
Burgessville.....	32.0	37.5	40.2	.....	2.7
Caledonia.....	118.0	147.6	198.4	.....	50.8
Chatham.....	3,056.3	3,053.6	3,454.2	.....	400.6
Chippawa Village.....	79.0	109.9	142.0	.....	32.1
Clinton.....	186.3	265.4	312.3	.....	46.9
Comber.....	99.0	102.9	170.2	.....	67.3
Dashwood.....	43.7	51.2	42.3	8.9	.....
Delaware.....	16.6	13.4	19.0	.....	5.6
Dereham Township.....	62.4	69.4	91.7	.....	22.3
Dixie.....	100.8	131.3	189.0	.....	57.7
Dorchester.....	21.4	48.4	55.1	.....	6.7
Drayton.....	56.3	67.0	81.7	.....	14.7
Dresden.....	177.0	202.4	190.3	12.1	.....
Drumbo.....	35.1	30.8	49.2	.....	18.4
Dublin.....	30.2	30.3	36.2	.....	5.9
Dundas.....	1,024.0	1,159.5	1,064.3	95.2	.....
Dunnville.....	348.5	363.2	395.4	.....	32.2
Dutton.....	115.2	130.6	163.5	.....	32.9
Elmira.....	415.5	425.0	615.0	.....	190.0
Elora.....	272.0	250.6	289.1	.....	38.5
Embro.....	63.5	60.0	53.1	6.9	.....
Essex.....	130.0	142.0	187.6	.....	45.6
Essex County System.....	1,273.4	1,433.6	1,710.5	.....	276.9
Etobicoke Township.....	663.5	857.8	1,215.8	.....	358.0
Exeter.....	232.0	261.0	270.8	.....	9.8
Fergus.....	295.0	309.6	292.2	17.4	.....
Ford City.....	977.6	1,407.5	1,473.2	.....	65.7
Forest.....	133.5	125.4	193.0	.....	67.6
Galt.....	4,222.5	4,906.0	5,095.3	.....	189.3
Georgetown.....	536.0	682.3	570.5	111.8	.....
Glencoe.....	79.8	82.5	97.3	.....	14.8
Goderich.....	510.7	654.1	898.0	.....	243.9
Grantham Township.....	46.3	103.2	139.5	.....	36.3
Granton.....	42.8	42.8	45.0	.....	2.2
Guelph.....	4,689.0	5,328.4	6,122.0	.....	793.6

## NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1922-1923-1924—Continued

Municipality	Peak load in horsepower			Change in load, 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
Hagersville.....	536.0	689.5	780.1	.....	90.6
Hamilton.....	21,542.0	23,447.0	23,954.0	.....	507.0
Harriston.....	171.5	196.5	225.2	.....	28.7
Harrow.....	54.6	96.5	95.7	0.8	.....
Hensall.....	60.7	56.7	67.1	.....	10.4
Hespeler.....	509.3	630.0	699.7	.....	69.7
Highgate.....	73.4	80.4	60.3	20.1	.....
Humberstone.....	55.0	76.0	118.0	.....	42.0
Ingersoll.....	1,323.0	1,457.0	1,551.9	.....	94.9
Kingsville.....	261.3	280.0	219.8	60.2	.....
Kitchener.....	7,868.6	10,301.6	10,482.5	.....	180.9
Lambeth.....	42.9	50.5	59.0	.....	8.5
Leamington.....	364.6	364.6	414.2	.....	49.6
Listowel.....	394.0	429.0	489.3	.....	60.3
London.....	16,442.0	18,114.6	17,418.0	696.6	.....
Lucan.....	116.6	122.0	164.7	.....	42.7
Lynden.....	83.0	117.9	119.3	.....	1.4
Markham.....	83.6	114.4	91.0	23.4	.....
Merlin.....	.....	88.4	85.8	2.6	.....
Merritton.....	273.4	375.3	615.3	.....	240.0
Milton.....	923.5	985.0	933.0	52.0	.....
Milverton.....	340.4	426.2	433.0	.....	6.8
Mimico.....	812.3	981.2	1,240.0	.....	258.8
Mimico Asylum.....	37.5	37.5	37.5	.....	.....
Mitchell.....	241.2	256.0	305.6	.....	49.6
Moorefield.....	47.5	34.2	40.2	.....	6.0
Mount Brydges.....	30.1	28.8	37.3	.....	8.5
Newbury.....	21.4	33.5	29.5	4.0	.....
New Hamburg.....	227.4	360.5	382.8	.....	22.3
New Toronto.....	1,863.3	1,984.0	2,780.2	.....	796.2
Niagara Falls.....	4,646.0	5,565.6	6,106.0	.....	540.4
Niagara-on-the-Lake.....	205.4	215.8	261.4	.....	45.6
Norwich.....	360.5	337.8	445.0	.....	107.2
Oil Springs.....	223.8	214.4	210.4	4.0	.....
Ontario Agriculture College.....	221.0	248.0	174.2	73.8	.....
Ontario Central Reformatory.....	191.0	209.1	183.6	25.5	.....
Otterville.....	44.2	49.5	51.7	.....	2.2
Palmerston.....	202.4	233.2	289.5	.....	56.3
Paris.....	904.8	1,008.0	1,104.1	.....	96.1
Parkhill.....	65.2	85.7	93.3	.....	7.6
Petrolia.....	536.0	768.0	792.2	.....	24.2
Plattsville.....	28.1	36.2	35.2	1.0	.....
Port Colborne.....	398.0	469.0	710.4	.....	241.4
Port Credit.....	186.3	207.7	306.3	.....	98.6
Port Dalhousie.....	152.8	182.3	214.5	.....	32.2
Port Dover.....	73.7	114.0	131.1	.....	17.1
Port Robinson.....	314.0	299.0	In Welland	R.P.D.	.....
Port Stanley.....	144.7	147.4	147.4	.....	.....
Preston.....	2,024.0	2,193.0	2,497.3	.....	304.3
Princeton.....	24.0	28.1	37.0	.....	8.9

## NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1922-1923-1924—Continued

Municipality	Peak load in horsepower			Change in load 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
Queenston.....	37.5	53.6	91.0	.....	37.4
Ridgetown.....	249.8	249.3	311.0	.....	61.7
Riverside.....	163.5	281.5	391.4	.....	109.9
Rockwood.....	50.4	51.4	59.7	.....	8.3
Rodney.....	110.2	67.9	74.1	.....	6.2
St. Catharines.....	5,120.0	6,079.0	6,314.4	.....	235.4
St. Clair Beach.....	23.8	49.6	57.6	.....	8.0
St. George.....	60.3	82.4	79.0	3.4	.....
St. Jacobs.....	32.0	42.8	47.2	.....	4.4
St. Marys.....	744.0	835.1	975.8	.....	140.7
St. Thomas.....	3,025.4	3,748.0	3,825.1	.....	77.1
Sarnia.....	3,526.0	4,278.8	4,281.8	.....	3.0
Scarboro Township.....	366.9	755.0	1,390.0	.....	635.0
Seaforth.....	308.3	384.7	402.1	.....	17.4
Simcoe.....	403.3	542.8	650.6	.....	107.8
Springfield.....	24.7	26.8	29.5	.....	2.7
Stamford Township.....	761.3	748.0	796.4	.....	48.4
Stouffville.....	.....	79.7	84.5	.....	4.8
Stratford.....	3,760.0	4,825.7	5,466.4	.....	640.7
Strathroy.....	454.0	512.0	596.5	.....	84.5
Streetsville.....	329.7	563.0	497.3	65.7	.....
Sutton.....	.....	53.6	63.6	.....	10.0
Tavistock.....	127.3	183.6	218.5	.....	34.9
Tecumseh.....	80.0	95.0	120.6	.....	25.6
Thamesford.....	87.0	114.0	108.6	5.4	.....
Thamesville.....	79.0	85.7	109.2	.....	23.5
Thedford.....	42.6	41.8	45.0	.....	3.2
Thorndale.....	66.8	45.5	32.1	13.4	.....
Tilbury.....	203.7	186.3	313.7	.....	127.4
Tillsonburg.....	368.3	504.6	536.8	.....	32.2
Toronto.....	87,600.5	109,411.5	124,662.0	.....	15,250.5
Toronto Township.....	405.0	524.0	710.4	.....	186.4
Thorold.....	484.0	718.5	697.0	21.5	.....
Walkerville.....	4,705.0	4,246.6	4,017.5	229.1	.....
Wallaceburg.....	864.6	765.9	1,292.9	.....	527.0
Wardsville.....	12.8	13.6	16.0	.....	2.4
Waterdown.....	112.0	164.8	195.0	.....	30.2
Waterford.....	187.6	182.3	175.6	6.7	.....
Waterloo.....	1,525.4	1,843.0	2,245.3	.....	402.3
Watford.....	96.0	85.7	102.1	.....	16.4
Welland.....	1,675.7	1,863.2	2,202.4	.....	339.2
Wellesley.....	127.3	142.0	128.7	13.3	.....
West Lorne.....	193.4	222.5	278.8	.....	56.3
Weston.....	1,402.0	1,785.4	1,840.5	.....	55.1
Windsor.....	9,001.3	13,652.5	15,932.9	.....	2,280.4
Woodbridge.....	165.0	214.4	272.0	.....	57.6
Woodstock.....	2,260.0	2,924.2	3,280.5	.....	356.3
Wyoming.....	39.4	42.8	48.2	.....	5.4
Zurich.....	84.3	72.3	42.9	29.4	.....

### NIAGARA SYSTEM—NEW MUNICIPALITIES

Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1924	Decrease	Increase
Barton Township.....	Mar., 1924	427.2	473.0	.....	45.8
Blyth.....	July 18, 1924	41.5	70.0	.....	28.5
Brantford Township.....	May 1, 1924	315.2	319.6	.....	4.4
Brussels.....	July 11, 1924	66.2	101.6	.....	35.4
Cayuga.....	Oct. 27, 1924	49.6	49.6	.....	.....
Clifford.....	May 11, 1924	26.8	32.1	.....	5.3
Courtright.....	Jan. 15, 1924	22.7	28.8	.....	6.1
Erieau.....	July 12, 1924	12.0	25.4	.....	13.4
Jarvis.....	Feb. 18, 1924	19.4	135.0	.....	115.6
North York Township.....	Nov., 1923	70.1	364.5	.....	294.4
Point Edward.....	Nov., 1923	191.0	496.0	.....	305.0
Sandwich.....	Feb., 1924	1,319.0	1,610.4	.....	291.4
Wheatley.....	Feb. 23, 1924	46.9	59.0	.....	12.1

### NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1923-1924

Rural power district	Peak load in horsepower		Change in load 1923-1924	
	Oct., 1923	Oct., 1924	Decrease	Increase
Aylmer.....	6.7	13.9	.....	6.2
Baden.....	32.1	24.6	7.5	.....
Beamsville.....	134.0	233.2	.....	99.2
Belle River.....	105.2	111.2	.....	6.0
Brant.....	46.4	62.0	.....	15.6
Chatham.....	52.2	68.6	.....	16.4
Chippawa.....	64.3	61.6	2.7	.....
Delaware.....	43.5	56.1	.....	12.6
Dorchester.....	101.7	94.5	7.2	.....
Drumbo.....	18.0	28.1	.....	10.1
Dundas.....	9.6	85.8	.....	76.2
Exeter.....	49.4	45.8	3.6	.....
Galt.....	15.0	26.7	.....	11.7
Homer.....	6.3	14.0	.....	7.7
Ingersoll.....	0.4	0.4	.....	.....
Jordan.....	18.3	22.0	.....	3.7
London.....	19.4	531.4	.....	512.0
Lynden.....	10.0	37.5	.....	27.5
Markham.....	16.0	47.6	.....	31.6
Niagara.....	32.0	111.2	.....	79.2
Petrolea.....	4.2	8.0	.....	3.8
Preston.....	105.0	148.6	.....	43.6
Ridgetown.....	38.8	61.6	.....	22.8
St. Jacobs.....	16.0	105.5	.....	89.5
St. Thomas.....	20.0	120.8	.....	100.8
Simcoe.....	15.0	15.0	.....	.....
Stamford.....	32.6	53.6	.....	21.0
Streetsville.....	0.6	1.0	.....	0.4
Tavistock.....	22.5	27.8	.....	5.3
Wallaceburg.....	11.5	77.2	.....	65.7
Waterdown.....	7.4	10.0	.....	2.6
Welland.....	11.4	642.1	.....	.....
Woodbridge.....	19.7	72.0	.....	52.3
Woodstock.....	152.2	156.5	.....	4.3



### NIAGARA SYSTEM—NEW RURAL POWER DISTRICTS

Rural power district	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1924	Decrease	Increase
Barton.....	June 13, 1924	16.7	14.0	2.7	.....
Blenheim.....	Aug., 1924	3.2	5.4	.....	2.2
Bolton.....	June 21, 1924	2.0	.2	1.8	.....
Bond Lake.....	Mar. 1, 1924	57.5	84.0	.....	26.5
Bothwell.....	Dec. 7, 1923	5.4	5.4	.....	.....
Brampton.....	Nov., 1923	1.0	4.0	.....	3.0
Harrow.....	Nov. 1, 1924	6.7	4.0	2.7	.....
Keswick.....	Mar., 1924	15.0	73.9	.....	58.9
Kingsville.....	Nov. 1, 1924	32.0	18.5	13.5	.....
Lansing.....	Mar., 1924	41.0	53.7	.....	12.7
Leamington.....	Nov. 1, 1924	107.2	99.2	8.0	.....
Mountjoy.....	Jan. 17, 1924	1.0	2.5	.....	1.5
Scarboro.....	Jan., 1924	6.0	7.5	.....	1.5
Stratford.....	July 1, 1924	144.7	116.6	28.1	.....
Tilbury.....	Dec., 1923	1.4	1.4	.....	.....
Tillsonburg.....	Dec. 11, 1923	21.4	27.5	.....	6.1
Waterford.....	May 1, 1923	19.3	19.8	.....	0.5

## GEORGIAN BAY SYSTEM

### Combining

#### SEVERN, EUGENIA AND WASDELLS SYSTEMS\*

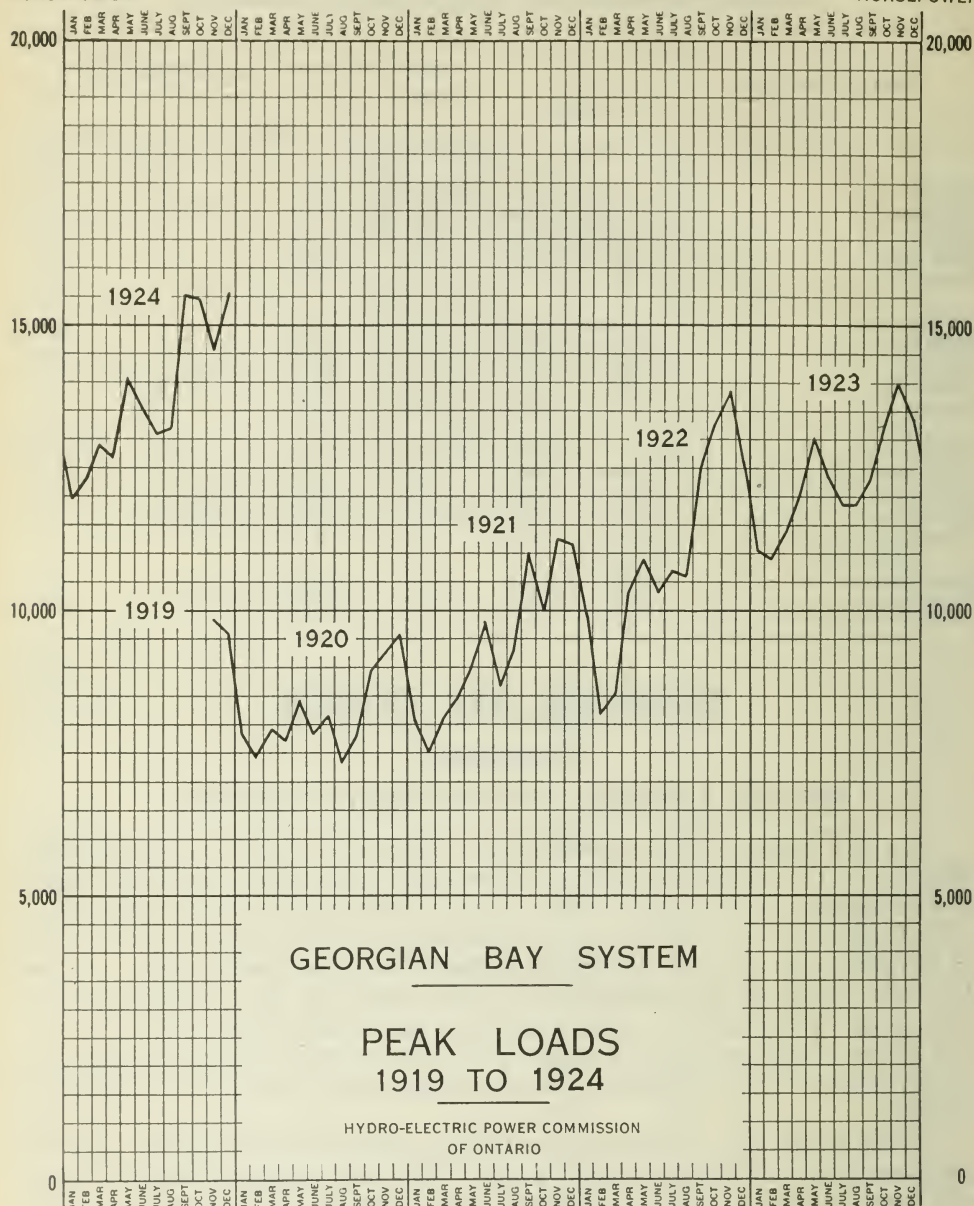
For the purpose of obtaining greater efficiency and to facilitate better operation of the various generating stations and connecting transmission lines, the Commission on January 31, 1924, authorized and approved the amalgamation of the Eugenia, Severn, Wasdells, and Muskoka systems to be known in future as the Georgian Bay system. These three systems were previously inter-connected physically, and have been referred to in past reports as the Combined Northern system. The plants can now be loaded so as to best conserve water for the good of the whole system, and the load can be transferred from one plant to another whenever it is desired to take equipment out of service for adjustment or repair.

At the beginning of the fiscal year 1923-24, there was some anxiety over the increasing load and the shortage of water. The mild autumn weather of 1923, with heavy rain, improved conditions, and although the demand for power during the first month of the fiscal year—November, 1923,—established a new high record, it was possible to supply all power required, without curtailment, by purchasing from the Orillia commission, and by the transfer of power from the Niagara system through the frequency changer set at Mount Forest. The

\*The combining of these individual systems into a single unit was accomplished under legislation as provided in an amendment to the Power Commission Act, R.S.O., c. 39, section 23 (b) (1918 c. 14, sec. 7), which was passed by the legislature at its last session. As certain extensions at the Muskoka development at South Falls and the transmission line between this development and the other systems of the amalgamation could not be completed and placed in operation until 1925, the Muskoka system has this year been treated as a separate unit, but will be included in the next annual report as a part of the Georgian Bay system.

HORSEPOWER

HORSEPOWER



load decreased slightly in December and the following winter months, but has increased again during the past summer. The September load (which was particularly heavy) was twenty-six per cent above the load of September, 1923, and the October load was sixteen per cent above that of October, 1923. This increase in demand on plants already heavily loaded has been successfully met up to the present.

At the Eugenia plant the erection of the second pipe line, with surge tank, was completed and put in service on May 26. This increased the plant capacity and makes possible repairs on either pipe line without completely shutting down

the station. The increased capacity of the Eugenia power house, approximately 1,200 horsepower, has helped the system to meet the increased demand for power.

The frequency changer station at Mount Forest transferred power from the Niagara system at a high load factor while in operation. In January, 1924, the armature winding on the 25-cycle end of the frequency changer set failed, and the set was out of service until a complete new winding could be procured and installed. The field winding was completely reinsulated and the armature frame repaired while the set was shut down. These repairs were completed and the set put back into service in the early part of September. As a result of the new winding installed, the capacity of the set has been slightly increased.

The end of the fiscal year sees all generating plants in efficient operating condition, and carrying the load without curtailment, but with a very narrow margin to meet possible increase in load or shortage in water supply.

### EUGENIA DIVISION

On the Eugenia division the high-tension lines were extended to Meaford, to the new transformer station constructed in that municipality, and service was first given at the end of January.

On the high-tension line between Shelburne and Orangeville extensive maintenance work was carried out, defective crossarms and insulators being replaced, poles examined carefully for butt-rot and any weakened poles stubbed.

A considerable amount of work on the high-tension line was caused by alterations necessary on account of road work, principally in connection with the provincial highways.

### SEVERN DIVISION

At the Big Chute plant the pipe line was repainted, and the usual maintenance work on electrical and hydraulic equipment carried out. The roofing on the old section of the power house was renewed, putting all the roof in good condition.

Extensive maintenance work was done on the transmission lines in the way of reinforcing poles found to be defective at the butt, and changing defective crossarms and insulators on the older lines.

Additional protective equipment was installed on the telephones at a number of stations for the safety of the operators.

### WASDELLS DIVISION

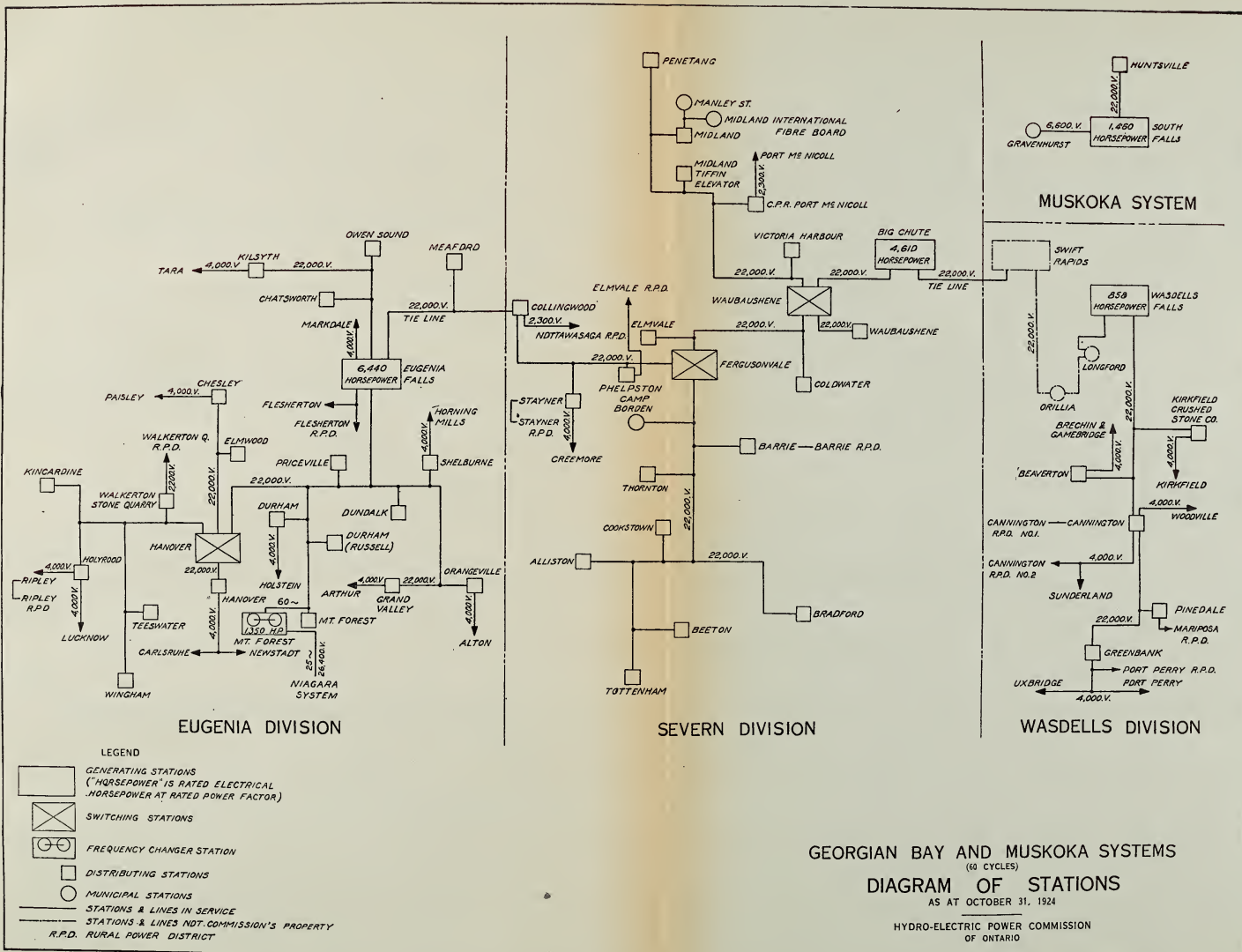
At the Wasdells power house the electrical and hydraulic equipment was maintained in efficient condition, and the plant operated normally at the full output permitted by the stream flow. The concrete piers of the dam at this power house had become worn by ice and refuse on the up-stream side. These were repaired and reinforced by steel plates. A guide rail was mounted on the full length of the dam for the safety of the operators when raising or lowering stop logs or crossing the dam. In connection with this railing, a power circuit was erected in conduit, with outlets at suitable points, for operating the motor on the stop-log winch. A timber structure was built in one of the sluiceways to assist the lumbermen in running logs past the dam without too great a waste of water, and to protect the concrete piers and floors of the sluiceways.



## GEORGIAN BAY SYSTEM—LOADS OF MUNICIPALITIES, 1922-1923-1924

Municipality	Peak load in horsepower			Change in load 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
SEVERN DIVISION					
Alliston.....	119.0	135.0	143.4	.....	8.4
Barrie.....	1,057.6	1,315.6	1,378.0	.....	62.4
Beeton.....	89.6	97.8	96.5	1.3	.....
Bradford.....	70.6	87.6	108.2	.....	20.6
Camp Borden.....	234.5	214.4	216.0	.....	1.6
Coldwater.....	108.5	84.4	62.7	21.7	.....
Collingwood.....	1,161.0	1,239.2	1,135.4	103.8	.....
Cookstown.....	36.0	39.9	44.2	.....	4.3
Creemore.....	56.3	57.6	72.3	.....	14.7
Elmvale.....	136.7	143.0	144.1	.....	1.1
Midland.....	1,583.0	1,605.9	2,996.0	.....	1,390.1
Penetang.....	811.0	471.8	370.0	101.8	.....
Port McNicoll.....	49.5	57.6	67.7	.....	10.1
Stayner.....	112.6	108.5	122.1	.....	13.6
Thornton.....	14.0	16.3	19.0	.....	2.7
Tottenham.....	35.3	40.8	46.3	.....	5.5
Victoria Harbour.....	47.0	52.0	56.3	.....	4.3
Waubashene.....	26.5	33.5	37.9	.....	4.4
EUGENIA DIVISION					
Arthur.....	100.5	109.2	115.2	.....	6.0
Carlsruhe and Neustadt.....	167.5	221.1	191.7	29.4	.....
Chatsworth.....	52.8	28.9	32.1	.....	3.2
Chesley.....	268.8	293.0	322.0	.....	29.0
Dundalk.....	109.3	128.6	119.3	9.3	.....
Durham.....	573.7	474.0	469.2	4.8	.....
Elmwood.....	29.6	36.9	38.8	.....	1.9
Flesherton.....	36.2	54.7	62.2	.....	7.5
Grand Valley.....	65.0	70.5	80.4	.....	9.9
Hanover.....	1,675.7	1,579.0	1,435.6	143.4	.....
Holstein.....	8.0	10.4	14.4	.....	4.0
Hornings Mills.....	5.0	5.0	5.0	.....	.....
Kincardine.....	179.6	227.8	238.6	.....	10.8
Lucknow.....	87.0	81.7	83.1	.....	1.4
Markdale.....	92.4	112.6	102.2	10.4	.....
Mount Forest.....	205.8	170.2	196.4	.....	26.2
Orangeville.....	194.6	244.4	280.1	.....	35.7
Owen Sound.....	1,691.7	1,731.9	1,702.5	29.4	.....
Paisley.....	.....	56.3	71.0	.....	14.7
Priceville.....	10.4	10.0	12.8	.....	2.8
Ripley.....	77.7	39.6	51.0	.....	11.4
Shelburne.....	147.4	148.7	205.0	.....	56.3
Tara.....	42.8	46.2	54.3	.....	8.1
Teeswater.....	67.6	132.7	115.8	16.9	.....
Wingham.....	297.5	380.7	368.6	12.1	.....
WASDELLS DIVISION					
Beaverton.....	119.9	132.7	167.5	.....	34.8
Brechin.....	53.6	50.9	44.7	6.2	.....
Cannington.....	92.5	93.8	102.4	.....	8.6
Kirkfield.....	32.7	26.8	32.4	.....	5.6
Port Perry.....	80.4	91.0	95.8	.....	4.8





# GEORGIAN BAY AND MUSKOKA SYSTEMS (60 CYCLES)

## DIAGRAM OF STATIONS

AS AT OCTOBER 31, 1924

HYDRO-ELECTRIC POWER COMMISSION  
OF ONTARIO



**GEORGIAN BAY SYSTEM—LOADS OF MUNICIPALITIES, 1922-1923-1924—Continued**

Municipality	Peak load in horsepower			Change in load 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
<b>WASDELLS DIVISION—Continued</b>					
Sunderland.....	60.3	56.3	56.0	0.3	.....
Uxbridge.....	88.4	83.0	107.0	.....	24.0
Victoria Rd.....	.....	13.6	10.8	2.8	.....
Woodville.....	61.0	57.6	52.0	5.6	.....

**GEORGIAN BAY SYSTEM—NEW MUNICIPALITIES**

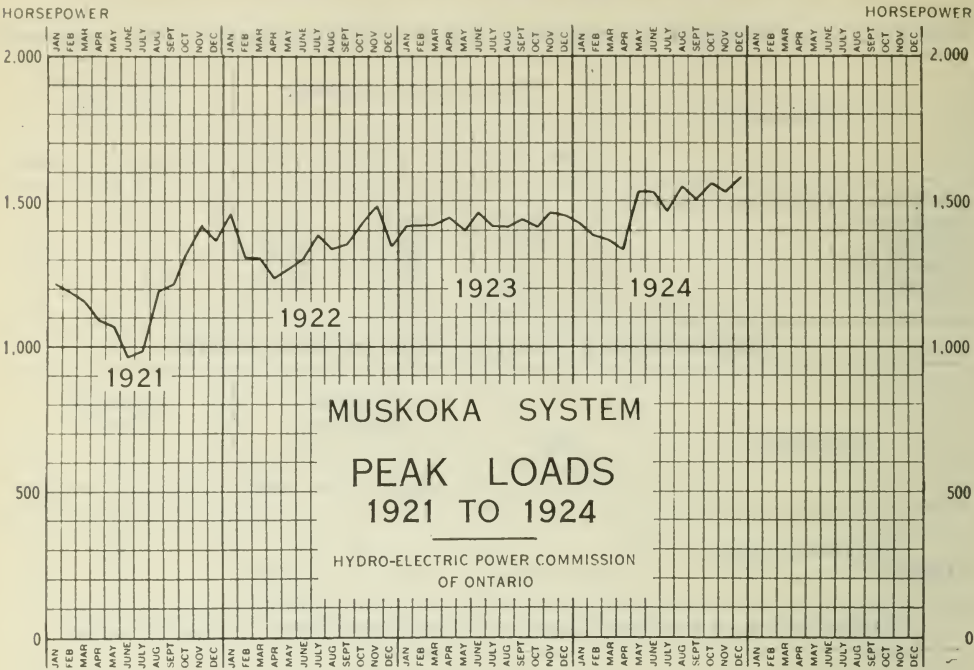
Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1924	Decrease	Increase
EUGENIA DIVISION Meaford.....	Jan. 31, 1924	182.3	220.0	.....	37.7

**GEORGIAN BAY SYSTEM—RURAL POWER DISTRICT LOADS, 1923-1924**

Rural power district	Peak load in horsepower		Change in load 1923-1924	
	Oct., 1923	Oct., 1924	Decrease	Increase
<b>SEVERN DIVISION</b>				
Barrie.....	11.4	16.0	.....	4.6
Nottawasaga.....	12.8	17.4	.....	4.6
Stayner.....	6.7	12.7	.....	6.0
<b>EUGENIA DIVISION</b>				
Flesherton.....	1.0	3.5	.....	2.5
Walkerton.....	1.0	1.0	.....	.....
<b>WASDELLS DIVISION</b>				
Mariposa.....	38.8	37.5	1.3	.....
Port Perry.....	3.0	2.5	0.5	.....

**GEORGIAN BAY SYSTEM—NEW RURAL POWER DISTRICTS**

Rural power district	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1924	Decrease	Increase
SEVERN DIVISION Elmvale.....	Jan. 10, 1924	9.6	8.9	0.7	.....
EUGENIA DIVISION Markdale.....	July, 1924	5.0	5.0	.....	.....
WASDELLS DIVISION Cannington No. 1..... Cannington No. 2.....	May 1, 1924 May 1, 1924	10.0 9.0	11.0 11.0	..... .....	1.0 2.0



MUSKOKA SYSTEM

The Muskoka system has continued to operate for another year with the demand for power pressing so closely on the generating capacity that there has been little opportunity to take equipment out of service for maintenance, adjustment or repair. There has been little change in the amount of the load, but any marked increase would be impossible until further capacity is available.

The power house at South Falls is being extended and construction work on the additional section has been going forward during the year.

As the plant was already loaded to the limit of its capacity in supplying the municipalities on the Muskoka system, it was necessary to get additional power from outside to meet the requirements of construction work. Arrangements were made with the Bracebridge commission for the installation by this Commission of the necessary equipment in Bracebridge local plant, and for the construction of the necessary line to link the Bracebridge power house with the Commission's 22,000-volt line passing through Bracebridge. Power supplied to the system lines from the Bracebridge plant has assisted in supplying the system load and released a corresponding amount for use on the construction work at South Falls.

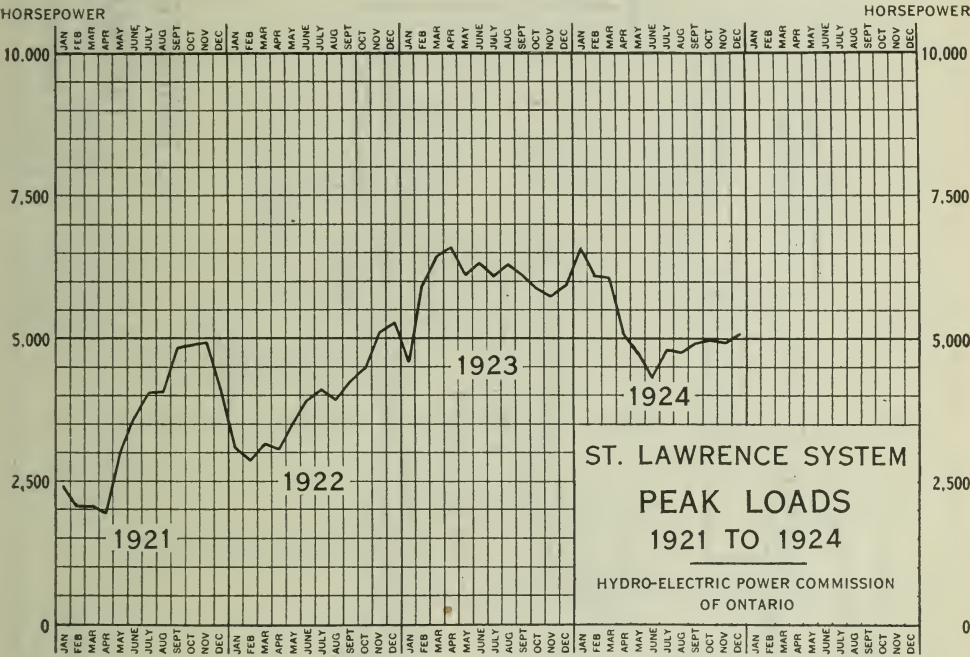
Trouble which developed on the turbine of No. 2 unit at the South Falls plant on June 20 required extensive emergency repair work, and made necessary a short curtailment in the supply of power to consumers. Several cases of trouble developed on the field winding of No. 1 generator, and all field coils were reinsulated between coils and ground on May 3, 4 and 5, work being carried out while load was light over the week-end, and with such assistance as could be obtained from the Bracebridge plant. Both units in this plant have been kept so constantly in service, and so heavily loaded, that they will require considerable maintenance work as soon as the new extension is in operation, or the station tied in with the Georgian Bay system.



At Huntsville station the series-trip relays on the high-tension oil-breaker were replaced by current-transformers and a more efficient type of relay protection.

MUSKOKA SYSTEM—LOADS OF MUNICIPALITIES, 1922-1923-1924

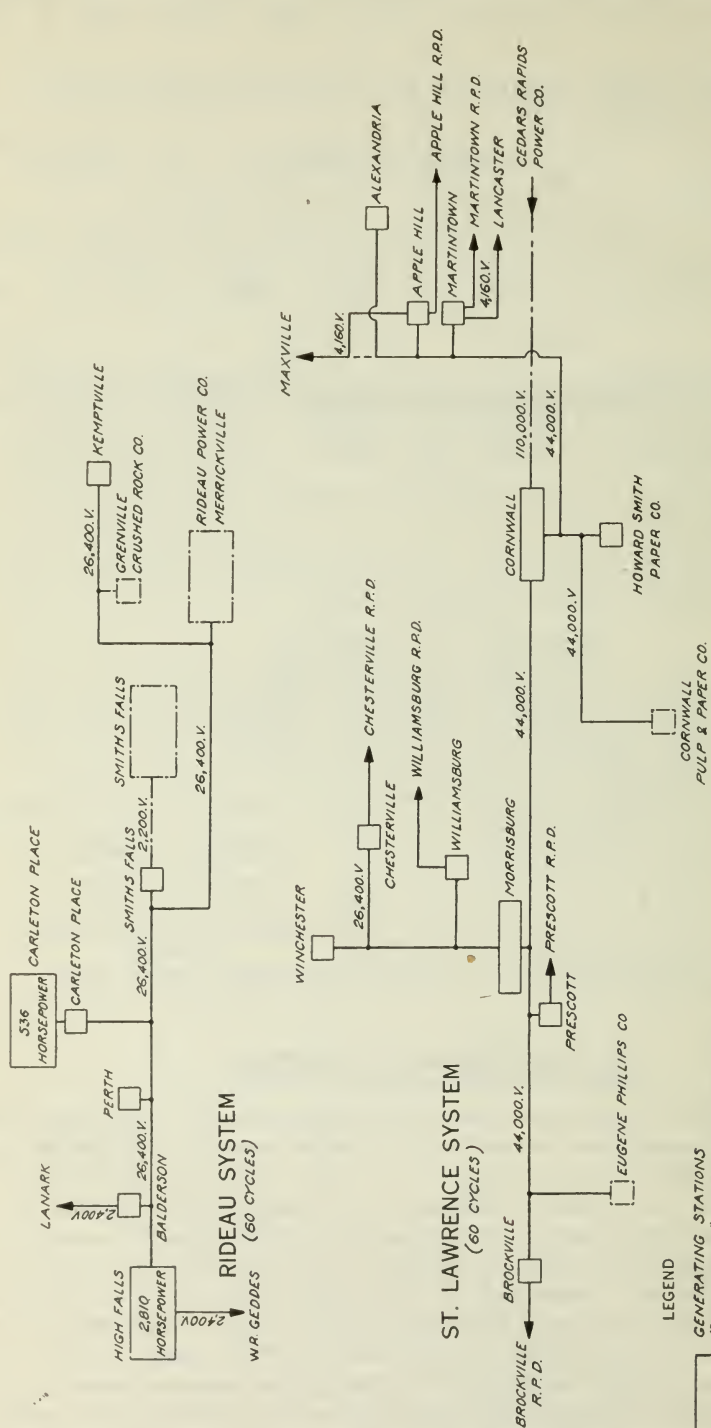
Municipality	Peak load in horsepower			Change in load 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
Gravenhurst.....	384.7	544.2	411.5	132.7	.....
Huntsville.....	921.0	896.7	966.5	.....	69.8



ST. LAWRENCE SYSTEM

The load on the St. Lawrence system was lighter than last year, due almost entirely to the shutting down of one large industrial customer. With this exception, operating conditions have changed very little, although it may be noted that on the whole the voltage and frequency of the power purchased for the system has been improved somewhat, as forecast in the Sixteenth Annual Report.

At the Howard Smith Paper Company substation, the No. 2, 750-kv-a., 44,000-volt transformer, transferred to this station from the Central Ontario system, has been replaced by a 1,500-kv-a. transformer, of exactly the same characteristics as the No. 1 1,500-kv-a. transformer. While operating this station with the 750-kv-a. transformer from the Central Ontario system in service, it was impossible to parallel the low-tension bus because of the difference in reactance between the two power transformers. This occasioned some inconvenience in grouping the outgoing, 600-volt feeders, so that the load would be satisfactorily



# ST. LAWRENCE AND RIDEAU SYSTEMS

## DIAGRAM OF STATIONS

AS AT OCTOBER 31, 1924

HYDRO-ELECTRIC POWER COMMISSION  
OF ONTARIO

divided between the two transformers, and also in metering the total output of the station. This difficulty has now been entirely overcome, since the new 1,500-kv-a. transformer is similar in all respects to the original, 1,500-kv-a. transformer, and parallels with it perfectly. The low-tension bus is no longer split, and the station load is totalized on one set of current-transformers.

General operating conditions have been normal and very satisfactory, and the usual line maintenance work, including tree trimming, has been done.

#### ST. LAWRENCE SYSTEM—LOADS OF MUNICIPALITIES, 1922-1923-1924

Municipality	Peak load in horsepower			Change in load 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
Alexandria.....	183.0	187.6	207.7	.....	20.1
Apple Hill.....	24.0	21.4	24.6	.....	3.2
Brockville.....	1,233.2	1,277.6	1,170.9	106.7	.....
Chesterville.....	124.7	170.2	210.4	.....	40.2
Lancaster.....	24.0	26.8	24.3	2.5	.....
Martintown.....	12.4	13.6	15.0	.....	1.4
Maxville.....	34.8	58.9	46.9	12.0	.....
Prescott.....	147.4	264.0	322.8	.....	58.8
Williamsburg.....	18.0	22.0	27.0	.....	5.0
Winchester.....	110.0	102.0	121.3	.....	19.3

#### ST. LAWRENCE SYSTEM—RURAL POWER DISTRICT LOADS, 1923-1924

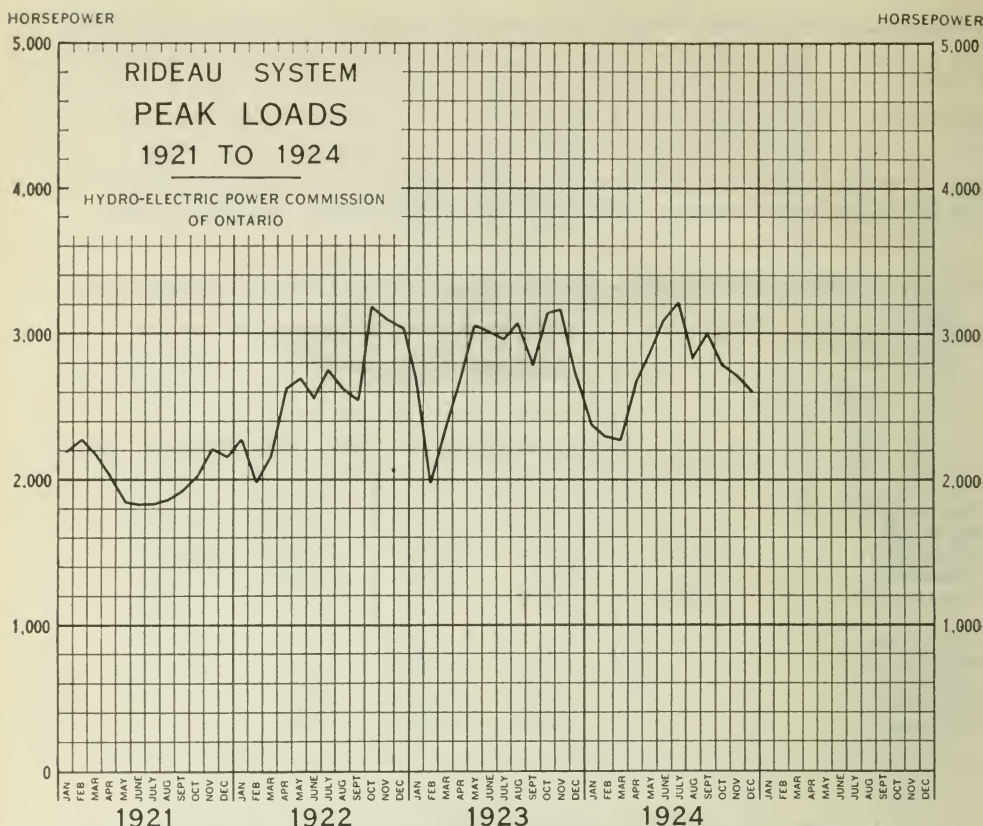
Rural power district	Peak load in horsepower		Change in load 1923-1924	
	Oct., 1923	Oct., 1924	Decrease	Increase
Brockville.....	34.0	49.4	.....	15.4
Chesterville.....	3.2	11.8	.....	8.6
Martintown.....	6.9	12.9	.....	6.0
Prescott.....	33.2	36.4	.....	3.2

### RIDEAU SYSTEM

The Rideau system load has shown no material increase, which condition has been attributed to the quiet industrial conditions prevailing.

The water supply has been very plentiful, but unfortunately work has not been commenced on the proposed Mazinaw Lake dam, although a temporary dam at Mazinaw Lake, similar to the one which gave very good satisfaction during 1923, was again installed. For various reasons the Mississippi River Improvement Company has been unable to start work on the permanent dam, although it is expected that something will be done next year.





In order to compensate in a measure for the failure to construct the new Mazinaw dam, the Mississippi River Improvement Company has made arrangements to rebuild a number of small storage dams, notably at McKlintock, Buckshot, Mississagogan and Farm lakes.

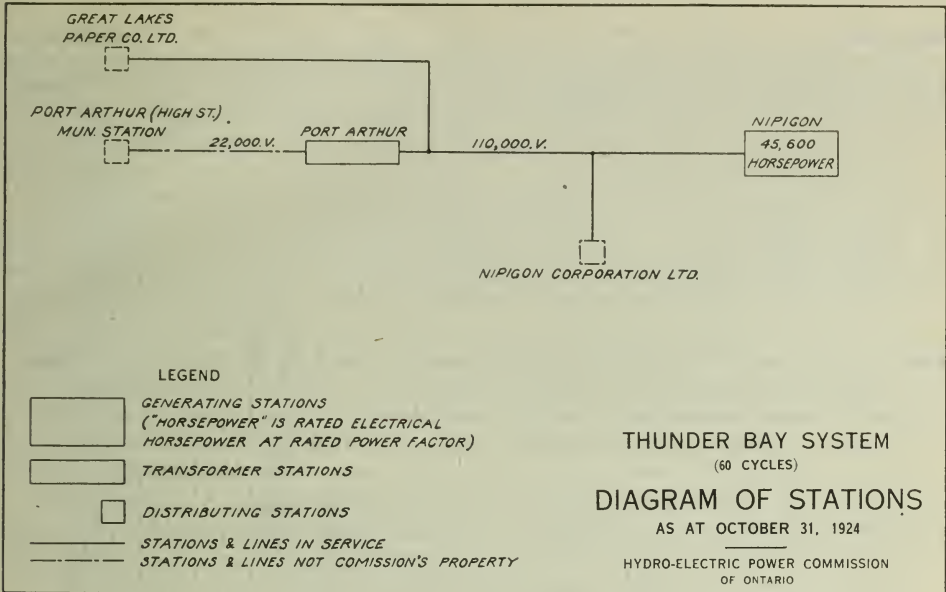
The very favourable water conditions have enabled the system load to be carried without difficulty by the High Falls plant, supplemented by the power purchased from the Rideau Power Company at Merrickville.

Beyond some pole straightening in swampy ground on the line to Carleton Place, comparatively little line maintenance work has been necessary. Station maintenance has also been light.

#### RIDEAU SYSTEM—LOADS OF MUNICIPALITIES, 1922-1923-1924

Municipality	Peak load in horsepower			Change in load 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
Carleton Place.....	800.2	832.4	718.5	113.9	.....
Kemptville.....	128.7	93.8	142.0	.....	48.2
Lanark.....	35.5	33.5	35.6	.....	2.1
Perth.....	474.5	516.0	429.0	87.0	.....
Smith Falls.....	785.0	975.8	832.4	143.4	.....





## THUNDER BAY SYSTEM

The Cameron Falls generating station has now completed its fourth year of operation, with a still steadily increasing load.

The general operating conditions have changed materially to take care of this increase in load and the addition of new customers. Two new generating units have been placed in commission during the past fiscal year, No. 3 going into operation on June 24, and No. 4 on September 27, each having a capacity of 12,500 horsepower. The original transmission line has been practically paralleled by a new circuit supported on steel towers, and an extension of fifteen miles of single circuit transmission line supported on steel towers, from the western terminus at Port Arthur to a new station south-west of Fort William, has also been placed in operation satisfactorily.

It is now found that while one machine at a time may be removed from service for short periods at certain hours of the night for cleaning, or for minor repairs, the normal day load, on account of heavy momentary fluctuations, requires the use of all four machines. The necessity of additional generating equipment at this station is already apparent, since any major repair operation on any machine may not be attempted.

All equipment at the generating station came through the year in good condition, though a couple of minor mishaps resulted in short system interruptions. All auxiliary equipment was maintained in first-class operating condition.

The original transmission line has given excellent service during the past year, though several interruptions were occasioned during the month of August by very bad storms. Since the placing of the second line in operation, the probability of trouble involving both lines simultaneously is remote. Some apprehension was again felt during the dry season regarding the danger from bush fires, but there was no really serious threat this year. The cutting of brush was also continued this year, and some progress was made in certain locations in the matter of clearing up the right-of-way.



The receiving station at Bare Point, Port Arthur, which was heavily overloaded, has been extended by the addition of a second similar bank of three 5,000 kv-a. units, located out-of-doors. No trouble has been experienced with any of the equipment at this point. The low-tension breaker equipment at this station has functioned quite properly in several cases of trouble on the 22,000-volt system.

The substation at the corner of High Street and Van Norman Street was only operated by us for about five months of this year, as it has been sold to the Public Utilities Commission of Port Arthur. During the period this station was under our care, the only trouble experienced was the failure of a 22,000-volt breaker in an outgoing line.

During the first six months of 1924, considerable assistance was given to the Kaministiquia Power Company by supplying power to its system at 22,000 volts, through the 22,000-volt lines of the Public Utilities Commission, from our station at Bare Point. Our system has thus been of considerable benefit to the municipality of Fort William.

The increase in load on this system, as shown in the curve appearing elsewhere in this Report, indicates a rate of growth, which is certainly not approached this year by any other of our systems.

**OTTAWA SYSTEM**

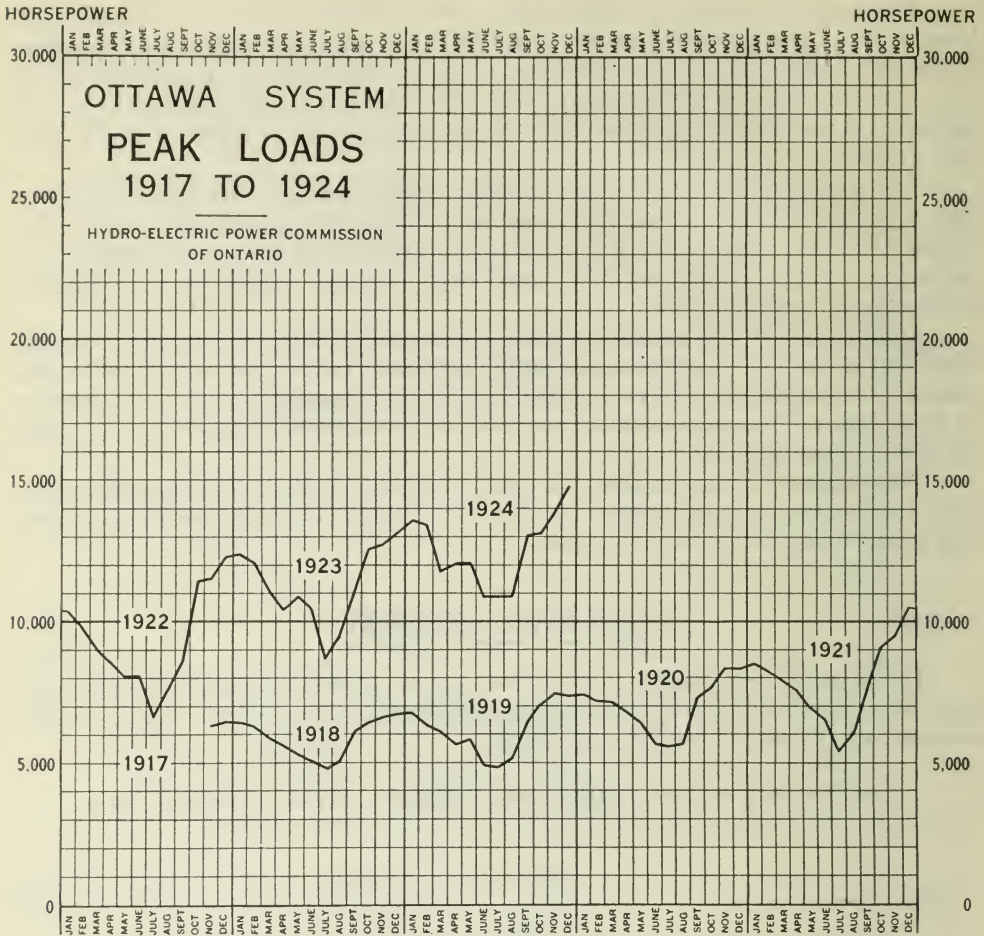
The usual system load growth of the Ottawa system has been apparent this year, as in previous years. No operating difficulties have arisen, nor have any changes, which affect operation, occurred.

**OTTAWA SYSTEM—LOADS OF MUNICIPALITIES, 1922-1923-1924**

Municipality	Peak load in horsepower			Change in load 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
Ottawa.....	11,394	12,528	13,206	.....	678

The peak load diagram for the Ottawa system will be found on the next page.



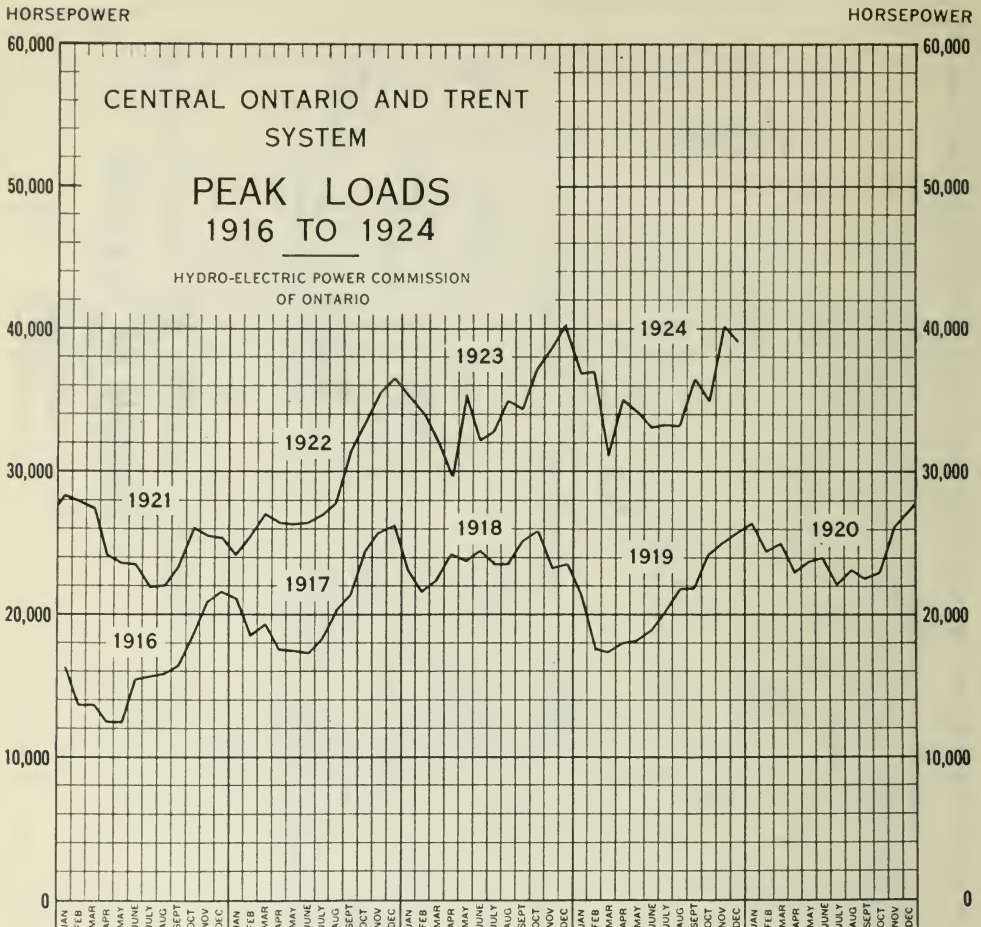


### CENTRAL ONTARIO AND TRENT SYSTEM

Important generating stations and lines have been added to the Central Ontario and Trent system. The new automatic generating station at Dam No. 8, about six miles south of Campbellford, started to deliver power to the system on September 11. This three-unit station is equipped with relays which make its operation completely automatic if desired, but it is intended to operate normally under the control of the operator of the Ranney Falls plant, which is about four miles upstream, through the medium of remote supervisory control equipment not yet in operation. Pending the completion of the supervisory equipment, it is necessary to maintain operators at the station, although synchronizing the units in the ordinary way is unnecessary, in fact impossible, since manual synchronizing equipment has not been installed. By pressing a button, the operator can bring a unit on the line and have it delivering power in fifteen or twenty seconds. The generator switches close, bringing the generator on the line at approximately synchronous speed, with field short-circuited, but almost instantly afterwards the short-circuit is removed, the field switch is closed and the generator pulls into step. If desired, all three units may be started or stopped







simultaneously. Line-breakers are, of course, electrically-operated and will ultimately be controlled from Ranney Falls.

The extremely short interval required to bring generators on the line or shut them down—for the time of shutting down is actually less than that of starting—is a feature which is very useful and convenient in system operation, and will be extended by only a few seconds when operated by supervisory control from Ranney Falls. It may be added that the acquisition of the plant at Dam No. 8 materially reduced the purchased power in the autumn of 1924.

Another automatic plant, similar to the plant at Dam No. 8, is under construction at Dam No. 9, and this concentration of so much power in the neighbourhood of Campbellford has necessitated the construction of additional 44,000-volt lines to insure the delivery of this power to the system, and also to insure the uninterrupted flow of water from plant to plant, which would be seriously upset for a time if any one plant in the Campbellford chain were to be cut away from the system.

The relay operation throughout the system has been steadily increasing in importance, and has been given careful study, which has been facilitated by the use of the indicating flags on the relays so that information on the operation of each relay may be more accurately compiled.

The Peterboro municipal station, which was placed in service on April 26, 1924, must be mentioned among the new stations and lines. This new station supersedes the old Simcoe Street station owned and operated by the Commission, and relieves the Commission of any operating responsibility connected with the Peterboro substation. Furthermore, by arrangements with the Peterboro Utilities Commission, a new street railway unit has been installed in the new station to be operated by the Utilities Commission for the Hydro-Electric Power Commission, a mutually profitable arrangement. The municipal station is now fed at 44,000 volts over about three miles of line from the high-tension network at the Auburn switching station.

Governor troubles at the plants at Dam No. 2, and Dam No. 5, which ultimately led to excessive maintenance costs, have been overcome by the installation of a central pumping system in each plant. The governors at both plants are now giving excellent service with no sign whatever of excessive wear. The brakes for bringing the units to rest have also been installed as forecast last year.

The need of a graphic frequency meter, which would furnish a permanent and accurate record of the system frequency at all times has been felt for some time, but no meter, which would satisfactorily meet the requirements, was available. This difficulty has now been overcome through the construction of several of these meters in the Commission's meter shop at Niagara Falls, one of which has been installed in the system load despatcher's office at Belleville. It has assisted the load despatchers in directing the operation of the various generating stations, and it has also helped us to improve the regulation of the governors at certain plants.

The necessity for interrupting service to Picton, Wellington and Bloomfield, in order to do line work between the Sidney terminal station and the Picton tap has been obviated by installing an additional set of disconnecting switches at the Picton tap in the line towards the Sidney terminal station. These switches enable power to be fed to the Picton tap via the main loop from Port Hope.

The installation in the plant at Dam No. 11 of an instrument which indicates the level of Crow Bay through the medium of impulses received from a water level sender at Crow Bay, has been very useful to the system load despatchers in maintaining the proper distribution of load throughout the various generating stations.

### **Load and Water Conditions**

Before describing the water conditions during 1924, a brief reference to the latter part of 1923 will be helpful. A complete description of 1923 conditions, with graphs similar to those reproduced here, will be found in last year's Annual Report, pages 40 to 45. Following a dry summer and early fall, the moderately good precipitation during November and December, 1923, relieved a situation which seemed rather unfavourable. This rainfall, coupled with moderate temperatures and a delayed freeze-up, gave ample opportunity for the ground to become thoroughly soaked, and started, early in December, a period of substantial surplus flow which continued without diminution until the 1924 spring freshet had subsided. Plate B1, graphs 2 and 3, will give some idea of this surplus when expressed in kilowatts, although both graphs are far off scale much of the time.

Plate A shows the 1924 precipitation expressed as a percentage of the normal. The low March precipitation had little effect since in any event it wastes in the violent freshet run-off. A good precipitation during April and May benefited



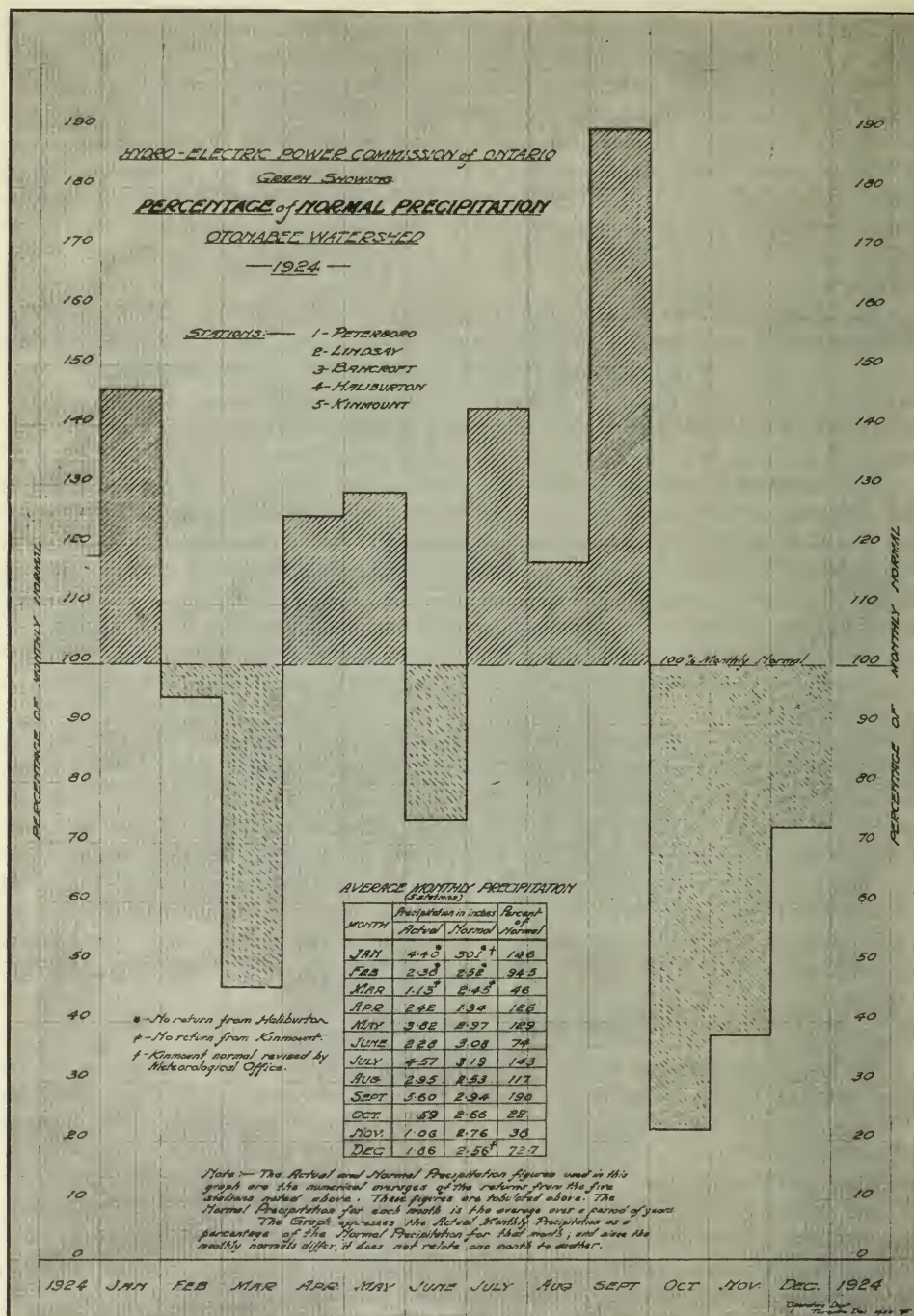


PLATE A—PRECIPITATION DATA

This graph represents the estimated actual monthly precipitation on the Otonabee watershed expressed as a percentage of the normal precipitation.

The estimate is based upon the actual and normal returns of the Meteorological Service for Peterboro, Lindsay, Bancroft, Haliburton and Kinmount. (See inset table.)

Although the numerical values differ from month to month the normal precipitation is taken as 100 per cent, hence the solidly hatched areas represent the amount by which the precipitation exceeded the average while the dotted hatched area represents in a similar manner the deficiencies.



the year's water supply by saturating the ground and adding to the ground waters, although this was largely counteracted by the somewhat low June precipitation. The generous precipitation during the months of July, August and September is the feature of the year.

During these months evaporation and transpiration\* losses are very heavy, and even with normal precipitation the demand upon storage is also heavy. There may be a tendency for very light and intermittent showers to evaporate away without materially benefiting water conditions, but, in general, a given amount of rain is really worth much more than it is during the spring months, for it effectively supplies the ground water loss due to evaporation and transpiration, and if it comes in sufficiently large quantities, it will certainly replenish the ground waters and storage reservoirs. Although a portion of the spring precipitation is stored in the form of ground water, it must be remembered that the ground surface is always more or less saturated in the spring, and that surface run-off into the reservoirs, which are already full, is rapid and causes considerable wastage. It may also be worth mentioning that under the existing level restrictions and method of regulating the Kawartha Lakes, a certain amount of wastage after a heavy summer rain is not unusual. This appears to be due to the fact that the combined increase in supply from that portion of the watershed, which drains directly into the Kawartha Lakes, and from the Gull and Burnt rivers, which constitutes the main source of supply, raises the Kawartha Lakes above their allotted limits before the supply from the Gull River is checked.

No doubt the fact that the flow during August and September was larger than usual during these months is attributable to the favourable summer conditions described. The October, November and December precipitation was very much below average, and, consequently, the draft on storage during this period was heavy. During November and December, the flow was reduced to the summer minimum, which means that it was considerably lower than the flow actually maintained during August, September and October, and was much lower than the flow normally required during November and December.

It will be noticed that the total precipitation from April to December, inclusive, does not materially exceed the average (it was, in fact, two per cent higher), although the individual months differ in a most striking manner. The fact that the supply through precipitation and ground water, taken over this important nine-month period, always fluctuates much less than shorter portions of the period, makes it possible to estimate fairly accurately the worst seasonal water conditions which are likely to occur during a reasonable period of years, and to formulate a plan of flow regulation based on such conditions.

The years 1923 and 1924 present a striking example of the advantage of such a method of regulation, and the unfortunate situations which may result from attaching insufficient importance to this dependable seasonal run-off. During 1923 the low precipitation from July to October, inclusive, naturally depleted storage resources. Such conditions frequently cause unnecessary anxiety about the maintenance of an adequate flow during the remainder of the season, and lead to a curtailment of flow and a consequent power shortage, even when the dependable run-off over the period of storage is quite adequate. In 1923 a condition of this kind threatened to become serious, but was averted as reported last year.

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\*Transpiration refers to the process by which green vegetation gives off water vapour. It is difficult to separate the loss due to transpiration from that due to ordinary surface evaporation although the two processes are quite distinct.

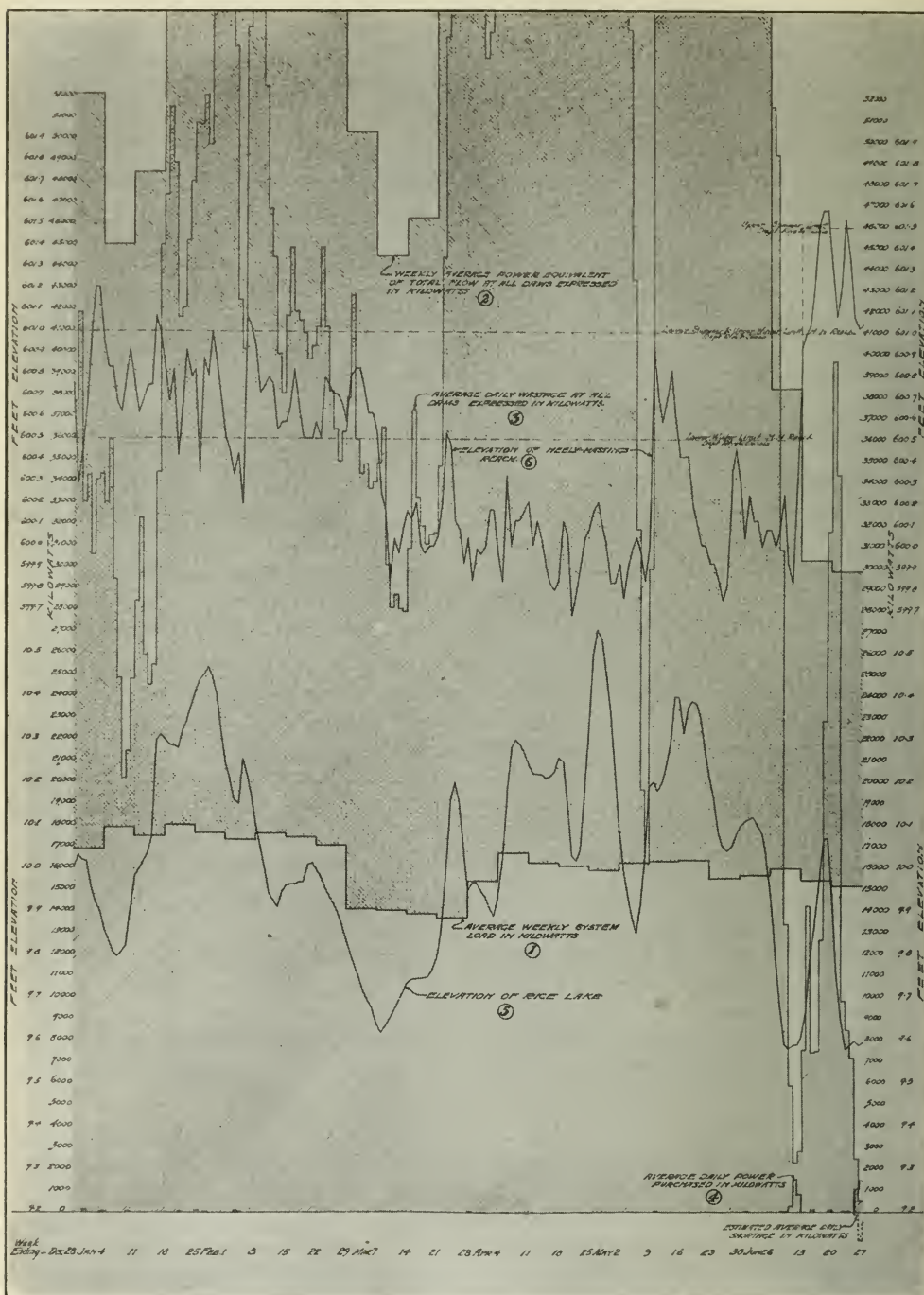


PLATE B1—GENERAL OPERATING DATA

December 28, 1923, to June 27, 1924

GRAPH No. 1—System average weekly load in kilowatts.

GRAPH No. 2—Weekly average power equivalent of total flow at all dams. This equals the weekly average system load plus the power equivalent of the weekly average wastage of water at all plants from which the Commission derives its regular supply. The wastage is shown by the dotted hatched area between graphs 2 and 1.

GRAPH No. 3—Average daily wastage at all plants expressed in kilowatts. In the weekly aggregate the area under this graph equals the wastage, represented by the hatched area between graphs 2 and 1 and shows the daily distribution on this weekly wastage.

(Description continued on opposite page)



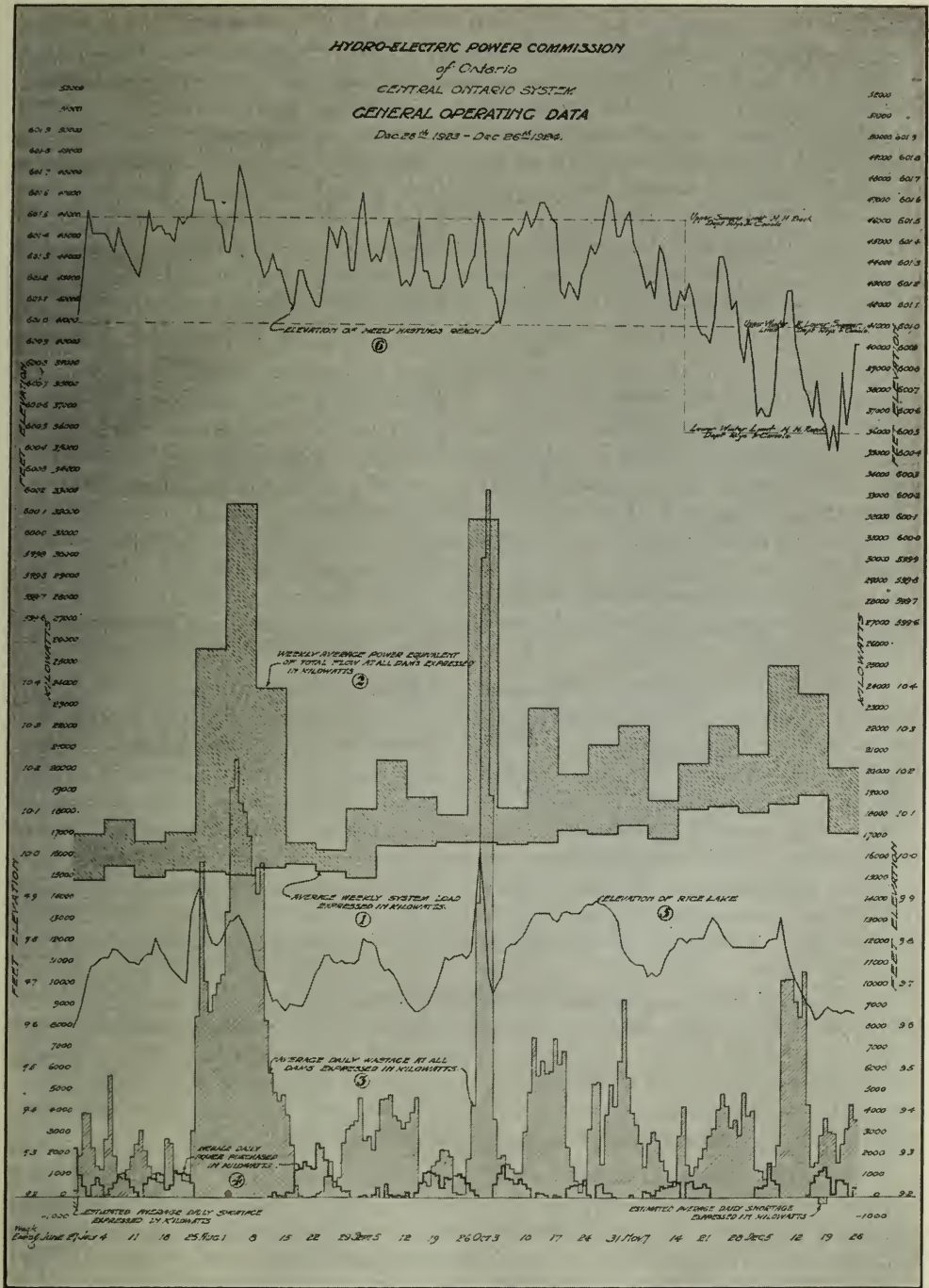


PLATE B2—GENERAL OPERATING DATA  
June 27, 1924, to December 26, 1924

(Description continued)

- GRAPH No. 4—Average daily power purchased in kilowatts.  
GRAPH No. 5—Midnight elevation of Rice lake.  
GRAPH No. 6—Midnight elevation of Heely-Hastings reach.

NOTE:—The hatched areas below the base line represent small power shortages.

On the other hand, generous precipitation, such as the 1924 precipitation from April to September, inclusive, and the consequent abundant available storage, might easily lead to an attempt to maintain too high a flow during these months, without due regard for the possibility of a reversal of conditions during the remaining months, which would more than offset the previous favourable conditions, and finally result in a run-off for the storage season very little better than the dependable minimum. The low precipitation during October, November and December, 1924, is an illustration of the danger of this, and the fact that, after an unusually high flow during August and September, the November and December flow was reduced to the summer minimum, notwithstanding the fact that the power output and consequent demand for water invariably increases at this time, illustrates the objectional results.

Because of the industrial depression and absence of system load growth, mentioned later, the November and December flow was sufficient for power requirements, and, therefore, the Commission was not inconvenienced by the economy effected by the flow reduction, although under ordinary circumstances such a low flow at this time would have created a very serious power shortage. The point to observe is that there is considerable risk attached to any attempt to maintain a flow during the storage season materially in excess of the dependable minimum, even though the conditions at the time seem favourable. It is, however, obvious that toward the latter part of the storage period the amount of water on hand might be sufficient to guarantee an increase over the safe established regimen.

It is worth noting that a difficult period for the power interests on the Trent River, sometimes referred to as the cut-off period, often occurs just at the close of the freshet. The sudden cut-off of the freshet flow, and the readjustment of levels which follows it, coupled with the fact that as a rule, the dams are not tight after a heavy surplus, frequently leads to a temporary reduction of the stream flow actually available for power purposes below the normal power requirements. This very condition occurred at the close of the 1924 freshet, and the load reductions on the 26, 27, and 28 of June, which resulted, are shown by the hatched areas below the base line at the end of plate B1 and at the beginning of plate B2. A shortage of this nature is usually of short duration and not particularly severe. Graph No. 1, average weekly system load, will bear out the fact that there was no abnormality of load during this period, and graph No. 5, elevation of Rice Lake, indicates that the lake level had reached a minimum just at the close of the freshet. Transitory conditions at Crow Bay and Percy Reach, which are not shown on these graphs, contributed in a small way towards this shortage. The Commission has reason to hope that shortages due to cut-off regulation will not be of frequent occurrence in the future.

The quiet industrial conditions seem to have been more pronounced, and to have prevailed for a longer period on the Central Ontario than on many of the other systems. The load increases of the earlier months of the fiscal year afforded every promise of a normal increase throughout. Consequently the industrial depression is held responsible for the fact that no increase during those months of the fiscal year which were dependent upon 1924 storage could be noticed. Even with the plant at Dam No. 8 in operation, had the expected fall load materialized, the Commission would have required a flow much greater than was available. Under such circumstances, it is a matter of conjecture what the flow regulation would have been.

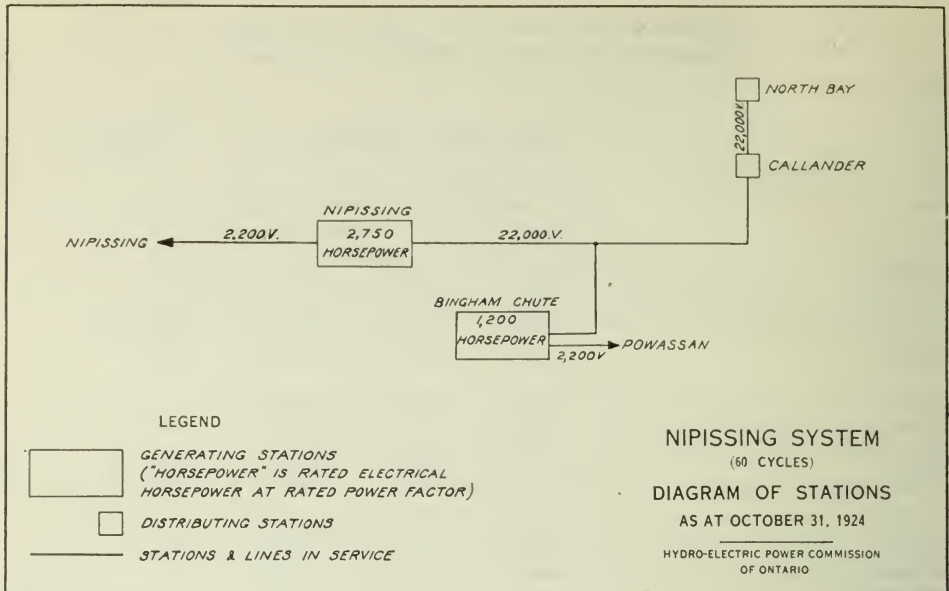


**CENTRAL ONTARIO AND TRENT SYSTEM  
LOADS OF MUNICIPALITIES, 1922-1923-1924**

Municipality	Peak load in horsepower			Change in load 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
Belleville.....	2,624.8	2,868.6	2,658.1	210.5	.....
Bloomfield.....	35.0	71.8	87.5	.....	15.7
Bowmanville.....	1,285.0	1,156.8	1,128.7	28.1	.....
Brighton.....	174.2	175.8	171.6	4.2	.....
Cobourg.....	1,059.0	1,160.8	986.6	174.2	.....
Colborne.....	126.5	109.2	109.6	.....	0.4
Deseronto.....	287.0	312.3	301.6	10.7	.....
Havelock.....	69.8	72.3	123.3	.....	51.0
Kingston.....	2,547.0	3,178.4	2,937.6	240.8	.....
Lakefield.....	85.0	138.0	88.0	50.0	.....
Lindsay.....	1,260.0	1,282.8	1,187.6	95.2	.....
Madoc.....	152.0	184.4	178.8	5.6	.....
Marmora.....	49.4	50.6	57.9	.....	7.3
Milbrook.....	36.4	36.4	55.7	.....	19.3
Napanee.....	576.4	604.5	679.6	.....	75.1
Newburg.....	160.8	490.6	209.1	281.5	.....
Newcastle.....	59.0	61.8	66.9	.....	5.1
Norwood.....	101.3	86.8	69.4	17.4	.....
Omemee.....	58.0	119.5	123.4	.....	3.9
Orono.....	40.0	41.2	44.6	.....	3.4
Oshawa.....	3,850.0	4,933.6	4,939.8	.....	6.2
Peterboro.....	4,306.2	5,839.3	4,837.8	1,001.5	.....
Picton.....	326.0	382.0	410.2	.....	28.2
Port Hope.....	608.0	782.8	833.8	.....	51.0
Stirling.....	135.3	157.7	168.9	.....	11.2
Trenton.....	823.0	865.9	914.2	.....	48.3
Tweed.....	144.7	148.7	136.7	12.0	.....
Wellington.....	74.0	73.7	96.5	.....	22.8
Whitby.....	583.0	666.2	682.3	.....	16.1

**CENTRAL ONTARIO AND TRENT SYSTEM—NEW MUNICIPALITIES**

Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1924	Decrease	Increase
Warkworth.....	Oct., 1923	30.4	40.8	.....	10.4



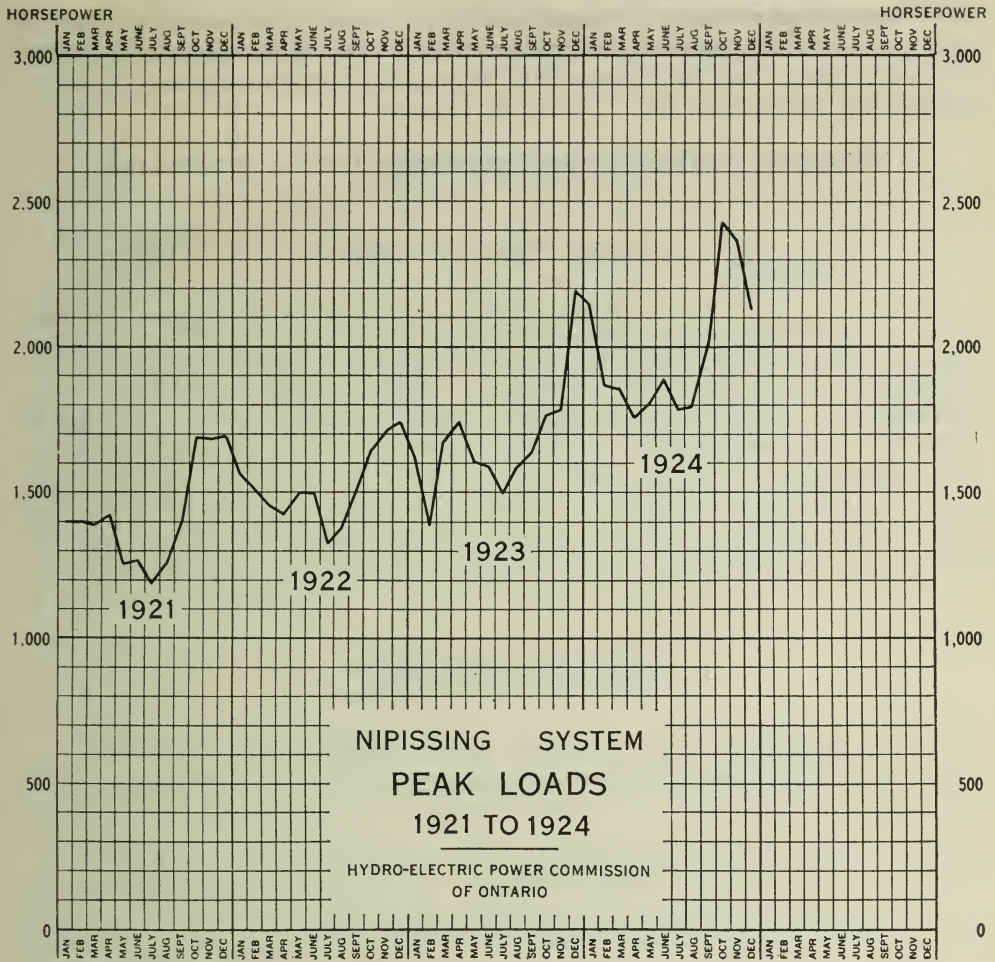
## NIPISSING SYSTEM

The power shortage on the Nipissing system was relieved when the first unit of 600 horsepower capacity was placed in operation at the new Bingham Chute power house on December 3, 1924. The second unit of similar capacity was placed in operation on March 31. Work on these units was pushed forward as rapidly as possible to get them into service before the demand for power exceeded the possible output of the Nipissing power house. Such details of construction as could be carried out with the units in operation were left for completion later.

At Nipissing power house, the capacity of No. 4 unit was increased by remodelling the turbine and installing a generator of 1,250 kv-a. capacity, direct driven from the turbine, in place of the former 450 kv-a. generator. These changes were completed and No. 4 unit put back into service by May 9. The full advantage of this change, as far as total station capacity is concerned, has not yet been obtained due to the old pipe line having insufficient water conveying capacity to supply both units at full load. The wood-stave pipe line at this plant has about reached the end of its useful life, requiring considerable maintenance. A new wood-stave pipe line of larger capacity is under construction, and is expected to be available for operation some time in November, 1924, which will give more advantage from the increased generator and turbine capacity.

At North Bay the erection of a Diesel oil engine, with generator and switch-board, was completed and turned over to the operating department. This unit was intended as a standby for emergency use only, and fortunately it has not been necessary to use it. The generator, separated from the Diesel engine, has been operated as a synchronous condenser, relieving the transmission line of considerable wattless current, and improving power factor and voltage regulation in North Bay.

The increased generating capacity, as described above, has made it possible for the system to meet all demands for power, but the increase in generating



capacity has been accompanied by a large increase in load, the demand for power in October being 37 per cent above the demand in October, 1923. The margin of generating capacity over power demand has been reduced by this growth of load to a point where it is again difficult to take even one generator out of service during peak-load hours.

Several men were kept employed during the year on the water storage system, regulating the storage in, or the supply of water from, the back lakes contributory to the South River. During the year extensive maintenance work was carried out on the dams at Craig Lake and Braie Lake. At Clear Lake the dam, which had been undermined by the water, was rebuilt.

The transmission line was regularly patrolled during the year, and any defective insulators, crossarms, or poles were replaced.

At Powassan the transformer station, stepping down from 22,000 volts to 2,200 volts, was taken out of service and dismantled. A 2,200-volt feeder was extended from the Powassan distribution system back to the Bingham Chute power house, which is only half a mile distant. This gives Powassan a direct supply from the generating station.

At Callander the 22,000-volt, stepping-down transformer station was remodelled.



The line entrance was rearranged and lightning arresters were installed. The old, high-tension fuse equipment and power transformers were replaced by newer equipment taken from the dismantled Powassan substation, and the low-tension switchboard was altered and the building repaired.

#### NIPISSING SYSTEM—LOADS OF MUNICIPALITIES, 1922-1923-1924

Municipality	Peak load in horsepower			Change in load 1923-1924	
	Oct., 1922	Oct., 1923	Oct., 1924	Decrease	Increase
Callander.....	80.0	90.0	60.0	30.0	.....
Nipissing.....	3.0	3.0	3.0	.....	.....
North Bay.....	1,523.0	1,479.0	2,119.0	.....	640.0
Powassan.....	80.0	106.0	103.0	3.0	.....

## SECTION III

### MUNICIPAL WORK

The Commission acts in an advisory capacity in connection with the operation of the various municipal Hydro Utilities with which it has contracts. In this connection, the Commission arranges for the purchase or construction of distribution systems and assists the municipal officials in making their financial arrangements to pay for the cost of same. The Commission also recommends all necessary rate adjustments, as provided under the Power Commission Act, and generally supervises the management and operation of all systems, more especially in the smaller municipalities, which are not of sufficient size to employ a manager with the technical knowledge necessary to handle properly all phases of the system's operation.

### NIAGARA SYSTEM

The load on the Niagara system increased very considerably during the year, in spite of the fact that the industrial conditions were considerably below normal. The demand for power supply for domestic use was very noticeable.

During the year seven new urban municipalities and fourteen townships were supplied and in addition six townships signed contracts for a supply of power. The generating capacity at the Queenston plant was increased by one unit during the year, and a second unit will be ready for operation early in the coming year.

General engineering assistance in connection with the operation of, and extensions to, local Hydro systems was given to the following municipalities: Acton, Agincourt, Ailsa Craig, Ancaster Township, Barton Township, Beachville, Brantford, Brantford Township, Burford, Caledonia, Chippawa, Clinton, Dashwood, Delaware, Dorchester, Drayton, Drumbo, Dublin, Dundas, Dunnville, Dutton, Elmira, Elora, Embro, Exeter, Fergus, Georgetown, Grantham Township, Granton, Guelph, Hagersville, Hamilton, Hensall, Hespeler, Ingersoll, Jarvis, Lambeth, Listowel, Lucan, Lynden, Merriton, Milverton, Mimico, Mitchell, Moorefield, Mount Brydges, New Hamburg, New Toronto, Niagara Falls, Niagara-on-the-Lake, Norwich, Palmerston, Paris, Parkhill, Plattsville, Port Colborne, Port Credit, Port Dalhousie, Port Dover, Preston, Princeton, Queenston, Rockwood, Rodney, St. Catharines, St. Marys, Seaforth, Simcoe, Stamford Township, Strathroy, Stouffville, Tavistock, Thamesford, Thorndale, Thorold, Waterdown, Waterford, Waterloo, Welland, West Lorne, Weston, Woodbridge, Zurich.

Certain municipalities, in addition to receiving general engineering assistance in connection with the operation of the local Hydro systems, received also

special engineering advice and assistance with respect to a number of matters, which are more fully referred to as follows:

**Aylmer**—To take care of a proportionately heavy electrical-appliance load, primary extensions and additional transformer capacity were recommended to the local commission.

**Baden**—The distribution system was partly rebuilt, the work consisting chiefly in increasing the size of the secondary conductor to accommodate increased domestic loads.

**Barton Township**—Previous to March 1, 1924, the Barton Township distribution system was operated and managed by officials of the Hamilton Hydro-Electric System. On that date the Barton Township Hydro-Electric Commission assumed operation of its plant and has segregated its system from the Hamilton Hydro-Electric System. The power supply is at present obtained from the city of Hamilton.

**Blyth**—The municipality passed enabling and money by-laws in 1923 for a supply of power from the Commission and for the building of a local distribution system. Before any money was expended, contracts carrying a minimum bill were obtained from a sufficient number of customers to ensure the financial success of the undertaking.

**Brampton**—Owing to increased load it became necessary to add to the transformer capacity of the station, and a set of transformers duplicating the original and thereby doubling the capacity of the station was purchased and installed.

**Brussels**—This municipality passed enabling and money by-laws in 1923 and received power from Walton station about the beginning of August, 1924. Both Blyth and Brussels are served by the 4,000-volt lines from the Walton station, which in turn receives current from the 26,400-volt line from Seaforth Junction.

**Caledonia**—The distribution system was completely remodelled during the year, a considerable increase in secondary copper and transformers having been made necessary by the more extensive use of electric ranges and an increase in the number of domestic consumers.

**Cayuga**—During the year this municipality voted on, and carried by a large majority, enabling and money by-laws, and has entered into a contract with the Commission for a supply of power. On a request from the municipality the Commission has constructed a complete distribution system, which commenced operation at the end of October.

**Clifford**—In accordance with the contract between the village of Clifford and the Hydro-Electric Power Commission, the 4,000-volt line was extended from the Harriston substation to this village and a distribution system was built in the village. Power was turned on in July, 1924, the initial load being approximately 30 horsepower.

**Courtright**—A new street-lighting and distribution system was constructed by the Commission's construction department and put into service.

The single-phase, 2,200-volt line being constructed by the Commission was completed from the former end of the line, in Corunna, to Courtright.



**East York Township**—At the request of the municipality, a valuation was made of the portion of the York Township system lying in East York, and estimates were submitted to the township covering the alterations necessary to provide for the purchase of power by the township at two points, so that the East York Township system might be operated as a separate unit.

**Erieau Village**—By-laws were passed, a new distribution system constructed, and power was turned on in this system in July, 1924.

A 2,200-volt, single-phase line was constructed by the Commission from the Blenheim distributing station to Erieau. This line supplies the village of Erieau as well as rural consumers in the Blenheim rural power district.

**Essex**—By-laws were passed with substantial majorities, and the distribution system in Essex purchased by the town from the Hydro-Electric Power Commission of Ontario.

The distribution system was remodelled and its voltage changed from 2,200 to 4,000 volts; also the motor-control system was completed, whereby two motors pumping water from deep wells one mile from the main pumping-station are controlled from the pumping station.

**Etobicoke Township**—The capacity of main feeders was increased, and the distribution system was extended. A new office building was completed at about the end of the fiscal year.

**Forest Hill Village**—A valuation of the distribution system lying in the village was submitted to the council, together with estimates of the cost of alterations to the system necessary to provide for the purchase of power at one point, so that the municipality might operate its own system as a distinct unit.

**Galt**—A number of recommendations have been made by the Commission's engineers in connection with the distribution system in Galt and preparations are nearly complete for the change over from the 2,200-volt to the 4,000-volt system. It is expected that better service will be given when this change is completed.

**Goderich**—The load in Goderich has materially increased during the year, due chiefly to the additional load taken by the grain elevators.

**Grantham Township**—On November 1, the Corporation of Grantham township formally transferred its complete distribution system to the Hydro-Electric Power Commission for the purpose of incorporating it in a rural power district. This system is now known as the Grantham rural power district and will in future be operated by the Commission.

**Hagersville**—Preparations are being made to convert the distribution system from 2,200-volt delta to 4,000-volt star for the purpose of effecting economies in the distribution over the local primary lines. The change was made necessary by the increase in the power requirements of the three large quarries situated in the town.

**Harriston**—Under instructions from the Commission's engineers, the distribution system in the town of Harriston has been gradually changed, to enable the local Commission to supply better service to its consumers.

**Harrow**—By-laws were passed and the distribution system in Harrow was purchased by the municipality from the Hydro-Electric Power Commission of Ontario, the police village assuming operation on its own behalf on July 1, 1924.

**Hensall**—A 40-horsepower extension to serve a sawmill was constructed.

**Humberstone**—During the year this municipality voted on, and carried by a large majority, enabling and money by-laws, and has entered into a contract with the Commission for a supply of power. Upon a request from the municipality, the Commission sold to it the complete distribution system within the municipality, which was formerly operated by the Ontario Power Company.

**Jarvis**—Early in the year the Jarvis Hydro-Electric system commenced operation and in addition to the usual domestic and commercial requirements in the municipality is at present serving three important power consumers.

**Kingsville**—By-laws were passed by substantial majorities and the distribution system was purchased by the municipality from the Hydro-Electric Power Commission of Ontario. Operation was assumed by the town on April 1, 1924.

**Kitchener**—The proposed change of primary distribution voltage from 2,200 to 4,000 volts was dealt with. The Kitchener load has increased rapidly and considerable work has thus been necessitated in connection with the distribution system.

**Leamington**—By-laws were passed by substantial majorities and the distribution system purchased by the municipality from the Hydro-Electric Power Commission of Ontario. The town commenced operation of its system on July 1, 1924.

The local office of the Hydro-Electric Power Commission, formerly in Leamington, was moved to Windsor.

**London Township—Voted Area**—The districts of Broughdale, Oxford Park and Kensington, lying to the immediate north and north-west of the city of London, were originally supplied with 2,200-volt delta power through the London Public Utilities Commission, after the London Electric Company removed its equipment.

Estimates were prepared and submitted to London township showing the cost of remodelling the local system to enable it to receive electric current from the Commission's Broughdale substation by means of a 4,000-volt, 3-phase, 4-wire, grounded star feeder.

Due to the increased use of electric current in the voted area, it was necessary that several primary extensions, additional 110-220-volt, secondary-distribution-system capacity, and lighting-transformer capacity be installed to give the consumers good service.

Similarly estimates were prepared showing the cost of changing the street lighting from the series system to the multiple system, and extending the installation to light all the streets in the voted area. This work was started in the field during the latter part of the year.

**Milton**—Station transformers duplicating the previous equipment were purchased and installed. The new equipment was connected to furnish 4,000 volts to supply the distribution system within the municipality as well as a line feeding the more remote power customers west of the town, the original



transformers being retained to furnish service to the larger power users having 2,200-volt motors.

**North York Township**—During the year arrangements were completed covering the purchase by the township of the portions of all distribution systems lying in the township, including portions of the distribution systems of the Toronto & York radial railway, the Toronto Suburban railway, and York township, and also the system near Weston owned partly by the latter municipality and by the Hydro-Electric Power Commission. These were incorporated into two main systems known as North York distribution system, areas Number One and Number Two, respectively. Arrangements were made providing for the operation by the town of Weston and by the Toronto Hydro-Electric System of the sections bordering the respective municipalities, the township Hydro Commission operating that portion of Area Number One lying north of the city. Numerous extensions in the township were also made.

**Plattsville**—An important load was added to the system early in the year in the location formerly occupied by Flour Milling Company's plant, destroyed by fire several years ago.

**Point Edward**—A by-law-in-Council for raising \$10,000 was approved by the Hydro-Electric Power Commission and the Ontario Railway and Municipal Board for necessary extensions to the system to take care of additional consumers and the operation of about fifty electric ranges.

The town purchased the 4,000-volt feeder from the Sarnia substation to Point Edward and took over the supplying of service to a large power consumer, formerly served by the Sarnia Hydro-Electric System.

**Port Colborne**—The rapid growth of this system has made it necessary to obtain increased office accommodation, and also has necessitated a large number of extensions to the distribution system. The Commission has approved a \$35,000 debenture issue for the purpose of constructing a new office and making the necessary extensions to the distributing system.

**St. Jacobs**—Changes were necessary in this system to accommodate the additional power required for the mill. The municipal system is supplied from an outdoor-type transformer, which is also used for the supply of the St. Jacobs rural power district. During the year it was found necessary to increase the capacity of this transformer station.

**St. Thomas**—It was found necessary during the year for St. Thomas to place an order for a fourth 750-kv-a., 13,200/2,300-volt, 3-phase transformer with suitable switching apparatus, for the main substation.

It has also been found necessary to extend and increase the capacity of the distribution system to take care of the increased use of current for electrical appliances.

**Sandwich**—Following the passing of by-laws by large majorities, the distribution system was purchased by the town from the Hydro-Electric Power Commission of Ontario and the Windsor Hydro-Electric system, and the town commenced operation on its own behalf on February 1, 1924.

The Hydro-Electric Power Commission constructed a 26,000-volt line one and one-quarter miles in length, and commenced the building of a distribution station in the town of Sandwich to supply the town of Sandwich and the Sandwich rural power district, and later on the town of La Salle.



**Sarnia**—To take care of the increasing load in the city of Sarnia for industrial purposes and also domestic users, approval was obtained for the issuing of debentures by the city of Sarnia to the amount of \$40,000, and construction work on a new substation in the southerly part of the city was commenced.

**Scarboro Township**—The township purchased the distribution system within its boundaries previously owned by the Toronto Hydro-Electric system and incorporated these sections into the township system, thereby completing the taking over by the township of all distribution lines in Area Number One of Scarboro township. The capacity of the system was also increased and the lines were extended.

**Simcoe**—Preparations are now being made to make a considerable number of extensions to the distribution system necessitated by a large increase in domestic and power requirements. This has been partly brought about by curtailed natural gas service during the winter months.

**Springfield**—Estimates were prepared showing the cost of extensions to serve two power consumers with 55 horsepower, and also of remodelling the local system to permit receiving electric current over a 4,000-volt, 3-phase, 4-wire, grounded star feeder from the Commission's Aylmer substation.

At the present time this municipality is served over a 2,200-volt delta feeder from the Tillsonburg substation.

**Stratford**—The municipality changed the voltage of its distribution system from 2,200 to 4,000 volts. This change was deemed necessary on account of the additional load in the municipality.

**Tilbury**—Due to the increase in load of the industrial plants in Tilbury and also on account of the increase in the domestic load, it is necessary for the Commission to install three 75-kv-a. outdoor-type transformers in addition to the three 100-kv-a. units already installed in the substation building.

**Tillsonburg**—The capacity of the lighting distribution system was increased to handle the increase in domestic load.

**Toronto Township**—Arrangements were made for the installation of an extensive street-lighting system, principally on Dundas street from Cooksville east, on Centre road between Dundas street and Lake Shore road and along Lake Shore road between Clarksons and the easterly township limits, the greater portion of the construction being installed during the year.

**Welland**—On March 1, the Commission acquired from the Welland Electric Company, Limited, its complete distribution system located in the city of Welland, the village of Fonhill, the police village of Fenwick and the townships of Pelham, Thorold and Crowland. The city of Welland has acquired that part within its boundaries, and the portion outside the city has been in the Welland rural power district, with the exception of the lines within the village of Fonhill. A debenture issue of \$75,000 to enable Welland to purchase the system within the city, and to convert to 25-cycle operation, and to change the inductive equipment was approved by the Commission.

**Wellesley**—The capacity of the local distribution system was increased.

**West Lorne**—A contract was secured for the local system with a milling company, and specifications were prepared for an extension to serve the mill with 550-volt, 3-phase power.

**York Township**—Approval was secured for additional debenture issues to cover the cost of numerous extensions. Arrangements were completed for the purchase of the portion of the distribution system of the Toronto Suburban railway lying within the municipality. Estimates were also secured and submitted to Council covering the cost of construction necessary to separate the system within the municipality from those of the surrounding districts.

**Zurich**—Extensions and improvements were made to take care of an increased domestic load.

## NIAGARA SYSTEM—RURAL\*

**Amherstburg Rural Power District**—Approximately two miles of line were completed north of the town of Amherstburg to supply consumers from the River road in Anderdon township, and four miles of line completed to the south of Amherstburg to supply rural consumers in Malden township. Special metering equipment was installed in the Amherstburg distributing station to measure the load of the rural power district separately from the load in the town.

**Aylmer Rural Power District**—Work instructions were issued covering the construction of a 4,000-volt low-tension line from Aylmer to Springfield, along which about eighteen rural contracts have been obtained.

**Barton Rural Power District**—Approximately five miles of line were constructed to give service to forty-eight consumers, and approval has been given for an additional three miles, which should be in service early in the year.

**Beamsville Rural Power District**—Approximately fifty consumers were added during the year, including four important power consumers connected with the canning industry. An application has been made by the police village of Jordan for a street-lighting installation. This will be constructed early in the year.

**Blenheim Rural Power District**—Approximately five miles of line were constructed and put in operation to supply farmers in Harwich township, west of Blenheim, and consumers in the hamlet of Cedar Springs. This line is supplied from the Commission's distributing station at Blenheim.

**Bolton Rural Power District**—This district was organised, and a line to supply a number of consumers was constructed.

**Bond Lake Rural Power District**—Construction between Richmond Hill and Aurora, formerly owned by Toronto and York Radial Railways, supplying 110 consumers, was taken into this rural power district on March 1, and an extension was built to Schomberg, to supply eighty-five consumers and thirty street lights, and to King City to supply forty-five consumers and nineteen street lights.

**Brant Rural Power District**—During the year two miles of line were constructed to give service to six farm consumers.

**Chatham Rural Power District**—The construction of approximately six miles of line extension was commenced, to supply additional consumers in

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\* See statement relating to Rural work at the end of this section, pages 66 to 69.

the district and also to provide service for the county of Kent at the bascule bridge over the Thames river at Prairie Siding.

**Delaware Rural Power District**—During the year a number of consumers have been added to this district, and the load shows a steady growth.

Work instructions were issued covering the installation of thirteen street lights in the hamlet of Melbourne which will be carried out early in the coming year.

**Dorchester Rural Power District**—Approximately one and one-half miles of overhead primary line were constructed and about two and one-quarter miles of single-phase line were changed to 3-phase in order to serve a 30-horse-power motor for a peat bog in this district.

A street-lighting system of twenty-five 100-watt, multiple, 115-volt lamps was installed in the police village of Belmont.

**Essex Rural Power District**—The distribution system in the police village of Cottam was taken into the Essex rural power district with a view to supplying service from the Essex distributing station by a line on the Talbot road from Essex to Cottam. This line will supply consumers along the road as well as in Cottam and vicinity.

In all probability a line will be extended in the near future from Essex distributing station to Woodslee.

**Galt Rural Power District**—Some additional customers have been supplied from this system during the year; the load is now in the neighbourhood of 27 horsepower.

**Georgetown Rural Power District**—This district was formed and two and one-half miles of line have been built to the hamlet of Norval, to supply thirty-five new consumers.

**Guelph Rural Power District**—This district was formed and preliminary work has been done to supply eight new consumers in 1924.

**Harrow Rural Power District**—Consumers in the township of Colchester South, formerly supplied by the Harrow distributing system, were supplied as part of the Harrow rural power district.

A movement is now on foot to construct lines in this district to the south of the village of Harrow to supply the hamlet of Oxley and summer residents on the Lake Shore.

**Homer Rural Power District**—This system will be incorporated early in the year with the Grantham township system and will in future be known as the Grantham rural power district. Extensions of a minor nature were made during the year to give service to approximately fifteen consumers.

**Keswick Rural Power District**—Construction formerly owned by Toronto and York Radial Railways in North Gwillimbury township, supplying 270 consumers, was taken into this rural power district on March 1, and two and one-half miles of new line were constructed to supply forty new consumers.

**Kingsville Rural Power District**—Consumers supplied in the townships of Mersea and Gosfield South from the Commission's distributing stations at Leamington and Kingsville were formed into the Kingsville rural power district, and approximately four miles of new line were constructed west of Kingsville to supply summer residents on the Lake Shore.



Special metering equipment was installed in the Kingsville and Leamington stations to measure the load to the rural power district separately from the loads of the towns.

**Lansing Rural Power District**—Construction formerly owned by the Toronto and York Radial Railways south of Richmond Hill and north of North York township, supplying 170 consumers, was taken into this rural power district on March 1, and approximately five miles of new line were constructed to supply forty new consumers.

**London Rural Power District**—Arrangements were made for the installation north-west of the city of a 450-kv-a. 13,200-to-4,000-volt substation, with a rural feeder and a feeder to handle the London township—Voted Area (Broughdale). Rural lines were constructed from this substation to serve a large number of rural consumers in the district desiring service.

A valuation was made of the existing 2,200-volt, delta distribution system constructed outside the city of London limits by the London Public Utilities Commission, and negotiations commenced with the London Public Utilities Commission to take over these lines and convert them to a 4,000-volt, 3-phase, 4-wire, grounded star system.

An estimate was prepared showing the cost of a multiple street-lighting system for Manor Park and Highland Park, and details in connection with the procedure to obtain the street lighting explained to those interested.

Connecting lines are being installed which will enable the Commission to serve from the two rural substations installed north and south of the city all the rural consumers now receiving power from the London Public Utilities.

**Lynden Rural Power District**—The extension from Lynden to Sheffield was placed in service in December, 1923.

**Milton Rural Power District**—This district was formed and preliminary work has been done to supply fifteen new consumers in 1924.

**Mount Joy Rural Power District**—This district was formed and service has been installed for twelve consumers in Markham township.

**Newmarket Rural Power District**—Construction between Newmarket and Aurora, formerly owned by Toronto and York Radial Railways, supplying ten rural consumers, was taken into this rural power district on March 1.

**Preston Rural Power District**—The Preston rural power district has been increased by the addition of a number of consumers on the existing lines as well as by extensions. The district now includes the hamlets of Blair, Bloomingdale, Breslau, Centreville, Doon, Freeport, German Mills, and Rosendale. A small extension is under way on the Guelph road east from Breslau.

**Ridgetown Rural Power District**—Approximately one-half mile of line was constructed in the Ridgetown rural power district to supply additional consumers requiring service in the Rondeau Provincial Park.

**St. Jacobs Rural Power District**—The line to Linwood, which was under construction last year, was completed, and in addition a line was built from Hawksville to St. Clements and Heidelberg. The flour mill in Conestogo has also become a customer on the rural line. The load on this district was over 100 horsepower for the month of October.

**St. Thomas Rural Power District**—Twenty-year contracts have been received from all the suburban consumers who were previously being served by the city of St. Thomas. Many of the consumers in this district have installed electric ranges. The load shows a steady increase.

Street-lighting systems were installed in the police villages of Fingal and Shedden.

**Saltfleet Rural Power District**—Approximately two miles of line were constructed during the year, and thirty additional consumers were given service from the lines.

**Sandwich Rural Power District**—Approximately three miles of rural line were constructed in the township of Sandwich West and the distribution system formerly known as Canard River, in the Essex County system, was incorporated into the Sandwich rural power district.

Following the receipt of applications construction work was commenced on the extensions in Sandwich East township, consisting of approximately nine miles of line.

A local office was established in Windsor. In addition to the Sandwich rural power district, this office will handle the billing of customers in the other districts in the county of Essex.

**Sarnia Rural Power District**—In the hamlet of Corunna a street-lighting system was installed on the poles of the Sarnia rural power district.

Approximately four and one-half miles of rural line were constructed in the district during the year, to supply customers along the St. Clair river and on the London road east of Sarnia.

**Scarboro Rural Power District**—This district was formed and lines were extended to supply thirty consumers in the Wexford district.

**Stratford Rural Power District**—In accordance with the recent legislation in regard to rural systems, the Commission has taken over, and is operating, the line from Stratford to Sebringville. Current is being obtained from the Stratford substation.

**Tilbury Rural Power District**—A small line extension was constructed in the hamlet of Fletcher, to supply rural consumers from the Fletcher distributing station.

**Wallaceburg Rural Power District**—Approximately sixteen miles of line, from the Commission's distributing station at Wallaceburg to the police villages of Port Lambton and Sombra, were completed. Distribution systems were completed in the two police villages, and consumers along the line given service as well.

Twenty-five 100-watt street lamps were installed in each of the police villages of Port Lambton and Sombra.

Service was supplied to two additional pumping plants, which pump the drainage from large areas of land, thus reclaiming them. This makes a total of four plants of this kind being supplied, with a possible fifth to be served in the near future.

**Walton Rural Power District**—Contracts with the villages of Blyth and Brussels necessitated the construction of a step-down station at the village of Walton. This station made possible the establishment of a rural district

with Walton as a base. The hamlet is now receiving Hydro service from the Walton station, there being some sixteen customers already connected.

**Waterdown Rural Power District**—One mile of new line was built to supply twenty-one new consumers and street-lighting at new bridges on Toronto and Hamilton Highway.

**Woodbridge Rural Power District**—Twenty-nine consumers formerly supplied by Bolton were taken into this rural power district, and construction of a line to Kleinburg to supply twenty new consumers was commenced.

**Woodstock Rural Power District**—The number of consumers and the power demands of this district have increased steadily throughout the year. The demand for the month of October, 1924, was 157 horsepower.

## GEORGIAN BAY SYSTEM\*

### combining

### SEVERN, EUGENIA AND WASDELLS SYSTEMS

The systems formerly known as the Severn, Eugenia and Wasdells systems, with their respective generating plants at Big Chute on the Severn river, Eugenia falls on the Beaver river and Wasdells falls on the Severn river, and the various interconnecting tie lines, were combined during the year under the name "Georgian Bay" system. This system also obtains surplus power from the Orillia Water and Light Commission, and from the Commission's Niagara system by means of a frequency-changer set.

The improved facilities for interchange of power among the various developments, brought about by the amalgamation of the three systems, has enabled the Commission to conduct operations more efficiently and economically than was possible under the former arrangement. With the completion of the extension of the Muskoka system development at South Falls on the Muskoka river, the details of which are given elsewhere in this report, and the proposed interconnection of the Muskoka and Georgian Bay systems, ample capacity will be available to meet probable increases in the demands for the next two or three years.

The operation of the frequency-changer set, which was placed in service at Mount Forest in the latter part of 1923, fully justified its installation; it enabled the system to carry the increased loads without any curtailment of service. Due to failure of the insulation on the windings of the 25-cycle motor, this unit was out of service for about eight months, but repairs were successfully carried out by the Commission's staff, and the unit resumed operation on September 13, 1924.

The second wood-stave pipe-line at the Eugenia development was completely installed and placed in operation on May 24, 1924. This additional pipe-line increases the plant capacity by approximately 2,000 horsepower.

In the Eugenia division, transfers were made of certain station transformers in order to accommodate changing loads in various municipalities. The three 100-kv-a. transformers formerly in use in the Chesley substation have been removed to the Walkerton Quarry substation and the three 150-kv-a. transformers formerly in this station installed at Chesley. The three 50-kv-a.

\* Consult also page 21.



transformers formerly at Shelburne substation have been removed to Holyrood substation and three 100-kv-a. transformers formerly in this station installed at Shelburne.

The annual meeting of the "Association of the Eugenia System Municipalities" was held in Owen Sound on May 19, 1924. Delegates from practically all the Eugenia municipalities were present, as well as various members of the Commission's staff, and a complete discussion took place at this meeting concerning all matters relating to the finances of the system. A full explanation of the amalgamation of the various northern systems into one system to be known as the "Georgian Bay" system was given, and the advantages to be gained by each of the individual systems pointed out.

In the year under review, general engineering assistance, advice and supervision were rendered to various municipalities on the system. Such services were chiefly in connection with the analysis of operating statements to determine equity of existing rates, the purchase of suitable and standard types of equipment, the construction of extensions to local distribution systems and the provision of service for various consumers. The municipalities assisted in this way were as follows:

**Severn Division**—Alliston, Barrie, Beeton, Bradford, Coldwater, Collingwood, Cookstown, Creemore, Elmvale, Midland, Penetang, Port McNicoll, Stayner, Thornton, Tottenham, Victoria Harbor and Waubaushene.

**Eugenia Division**—Arthur, Chatsworth, Chesley, Dundalk, Durham, Elmwood, Flesherton, Grand Valley, Hanover, Holstein, Kincardine, Lucknow, Markdale, Meaford, Mount Forest, Neustadt, Orangeville, Owen Sound, Paisley, Priceville, Ripley, Shelburne, Tara, Teeswater and Wingham.

**Wasdells Division**—Beaverton, Brechin, Cannington, Kirkfield, Port Perry, Sunderland, Uxbridge and Woodville.

Special engineering assistance was also rendered to certain of the municipalities of the system, as follows:

### SEVERN DIVISION

**Barrie**—The preliminary estimates that were prepared and submitted a year ago, covering an underground distribution system for a portion of the business section of the town, were followed this year by actual construction work. The installation of the cable ducts and the ornamental street-lighting standards has been completed and the cable work and necessary changes at the substation to accommodate the additional feeders are proceeding at the present time. It is expected that the new equipment will be utilized in the near future, and the poles and overhead lines on the main street removed in the early spring.

**Beeton**—An extension of the distribution lines was made to supply power under a new power contract secured from the Canadian National Railways for the operation of a motor on a coal chute. The street-lighting system was improved by the installation of fifteen new street lamps on the main street.

The increase in the load in this municipality necessitated the changing by the Commission of the transformer in the substation to provide the additional power required.

**Bradford**—Efforts were made to secure additional power loads in this municipality. During the first part of the fiscal year service was installed in the Lukes mill for grain-grinding purposes, and at a later date on the completion of the new flour mill the service was extended to serve the mill. A contract was also secured from the Canadian National Railways to provide electric service for pumping purposes.

The increase in the power load of the municipality necessitated a change by the Commission of the transformers at the substation. Changes were also required in the distribution lines.

**Midland**—Negotiations were completed during the year whereby the local Commission has purchased from this Commission the equipment in both the Fourth street and Tiffin substations. The Tiffin charts will be superimposed on the Midland charts and the municipality billed for 22,000-volt power on the basis of the combined peak.

A new industry was added during the year with a demand of approximately 1,500 horsepower. This necessitated an extension of the local 22,000-volt lines and the erection of two new substations at the consumer's plant.

**Thornton**—An effort has been made in this municipality to build up the load and improve the financial operation of the local system. A customer for the off-peak power which the municipality has for sale has been obtained, and the Commission is advising the local officials with regard to alterations and extensions to the distribution system required to serve this consumer.

### EUGENIA DIVISION

**Meaford**—The distribution system in this municipality was reconstructed in accordance with the design prepared last year. The major portion of the primary lines was rebuilt and Hydro service inaugurated on February 1, 1924. The reconstruction work has been carried on throughout the year and is now practically completed. At the municipal pumping station, the two steam-driven pumping units have been replaced by an electrically-driven pump for domestic purposes and a gasoline-engine-driven pump for fire protection.

**Wiarton**—This municipality has not executed a contract for a supply of power with the Commission, but information was submitted covering the procedure necessary for obtaining Hydro service. Advice was also rendered concerning their present service, which is obtained from the Sauble Falls Electric Light and Power Company.

### WASDELLS DIVISION

**Beaverton**—The extension out of Beaverton which serves the summer-cottage areas known as Cedarhurst and Maple Beach, was purchased from this Commission by Beaverton and the operation of the same taken over by the local officials on June 1. In order to improve the regulation, with the rapidly increasing load, one of the steel conductors was replaced during the summer with two No. 6 copper conductors. The extension at present comprises approximately five miles of line and service is given to ninety-four consumers.

**Crushed Stone Company, Limited, Kirkfield**—The Commission's engineers pointed out to this company, which had operated for several years with a very low power factor, that the employment of synchronous equipment would result in economy. After considering the detailed data prepared and

submitted, the company purchased a synchronous condenser, placing it in operation in April. This consumer's higher power factor has brought about a material improvement in the regulation and operation of the system as a whole.

## GEORGIAN BAY SYSTEM—RURAL

Following the requests of various township councils throughout the district, considerable assistance was rendered in an effort to procure sufficient rural contracts to warrant the building of additional lines. Public meetings were held at different places, information was submitted respecting rates and methods of obtaining service, committees were organized and assistance was given to the various individuals who were appointed to carry on a canvass.

Assistance of this nature was rendered to the following townships:

**Severn Division:** Collingwood, Essa, Flos, Innisfil, Matchedash, Medonte, North Orillia, Nottawasaga, Oro, Sunnidale, Tay, Tecumseh and Vespra.

**Wasdells Division:** Bexley, Brock, Eldon, Mara, Mariposa, Morrison, Rama, Reach and Thorah.

General engineering assistance and advice were also rendered in connection with the operation of the following rural power districts:

**Eugenia Division:** Flesherton rural power district, Markdale rural power district, Ripley rural power district, and Walkerton Quarry rural power district.

Special engineering services were rendered to certain of the rural power districts, as follows:

### SEVERN DIVISION

**Elmvale Rural Power District**—The station and distribution system for the hamlet of Phelpston were completed and placed in operation on January 10, 1924. Service to this hamlet is rather unique, in that the transformation from 22,000 to 110 volts is carried out in one step by means of a 10-kv-a. pole-type transformer.

**Innisfil Rural Power District**—Special attention was given to this district during the summer months as a result of renewed activity on the part of the Innisfil Township officials and the Cottagers' Association at Big Cedar Point. Service to this district will involve the erection of a substation and about ten miles of line, and although quite a number of contracts have been signed, there are not enough to warrant construction. This district will be given further attention during the coming summer.

**Nottawasaga Rural Power District**—Various extensions were made to this system and service was given to several additional customers. Information was also submitted to a group of prospective consumers in the vicinity of Batteau, a hamlet in the district.

**Stayner Rural Power District**—The distribution system which was constructed last year for the summer resort at Wasaga Beach, situated within this district, was extended to serve thirty-six new consumers during the current year. The power demand established by this district increased from approximately 35 horsepower to 59 horsepower. Investigations are being made at the present time as to the advisability of altering the service to this district from single phase to three phase in order to handle the increasing load.



## EUGENIA DIVISION

**Lucknow Rural Power District**—Special assistance was rendered this district in connection with service from the 4,000-volt line between Holyrood station and the municipality of Lucknow.

## WASDELLS DIVISION

**Cannington Rural Power Districts Nos. 1 and 2**—The operation of the service to the existing consumers on the Woodville and Sunderland feeders, which had previously been handled by the two municipalities, was taken over by the Commission on May 1. The consumers were all reclassified on the standard basis, and new rates applied.

## ST. LAWRENCE SYSTEM

At the request of several municipalities in the eastern part of the province, engineering assistance was given to determine the probable cost of securing electric service; these included municipalities which had previously voted favourably on obtaining a supply of power from the St. Lawrence system transmission lines. An effort was made to establish rural power districts which might, in co-operation with these municipalities, secure an economic supply of power. No additional customers, however, were connected to the system during the year. The existing municipalities and other customers of the system have steadily increased their power demands, but the Glengarry Pulp Company, of Cornwall, has ceased operation, and this has resulted in lowering the total demand of the system.

**Alexandria**—An extension of the system to the hamlet of Green Valley was made during the year, to supply an industrial load of 90 horsepower. Certain changes are proposed in connection with the secondary and street lighting systems. Rates for lighting and street lighting were reduced during the year.

**Apple Hill**—The power demand of this police village has increased 10 per cent over the load taken for 1923, due to increased use of domestic appliances. The lighting rates were reduced during the year.

**Brockville**—A general increase in the use of electricity is noted in this municipality. Owing to important economics effected as compared to the preceding year, it was found necessary to make a marked reduction in the rates to all classes of customers during the year. Growth in the power demand of the municipality, which was anticipated as a consequence, is already becoming evident.

**Chesterville**—Demand for additional power for industrial purposes, has increased the power load of this system 17 per cent over that taken for 1923. On account of the improved financial condition of the system, lighting and power rates were reduced during the year.

**Finch**—The village council requested that the Commission build a transmission line to supply the village. Revised estimates of the cost of power and of a distribution system were prepared and submitted to the council. After the request was received from Finch village, rural meetings were held in the township of Finch to enlist the co-operation of the rural residents in the matter of the proposed line from Chesterville to Finch.

**Hawkesbury**—At the request of the council, engineering assistance was given this municipality in connection with granting a franchise to a private company to supply the residents of Hawkesbury with light and power.

**Lancaster**—With the object of increasing the demand on the line supplying Lancaster, rural meetings were held during the year to promote the co-operative utilization of power by the rural residents.

**Martintown**—The power demand of this police village has increased about 10 per cent over that taken for 1923, due to additional lighting consumers.

**Maxville**—There was an increase in the number of lighting consumers and about 10 per cent increase in the power demand of the system, over that taken in 1923.

**Prescott**—The finances of the electrical utility in this municipality have reached a very desirable condition, enabling rates to be applied comparable to those in the larger cities in the province. A reduction of rates was accordingly made which has resulted in a general desire for greater use of household appliances.

**Williamsburg**—The lighting and street-lighting rates were reduced on account of the good financial conditions of this corporation's electrical utility.

**Winchester**—Additional power consumers were served during the year. There is a steady increase of the use of appliances in this municipality and in consequence, the financial condition of the system warranted a reduction during the year, of the lighting and street-lighting rates.

## ST. LAWRENCE SYSTEM—RURAL

During the year, at the request of township councils, public meetings were held in rural districts not established, to submit information on the cost of service to rural residents. This included the townships of Cornwall, Finch, Osnabruck, Roxborough and others. Two new districts have been started during the year, one at Williamsburg and the other at Apple Hill.

**Apple Hill Rural Power District**—A canvass of rural residents between Apple Hill and Maxville was made for the purpose of obtaining additional consumers in this district.

**Brockville Rural Power District**—Additional customers were connected to this district. During the year, a small extension was made to serve two farmers. Information on cost of service was given to prospective parties.

**Chesterville Rural Power District**—To obtain the co-operation of the rural residents to take service on the proposed transmission line from Chesterville to Finch, meetings were held in this district during the year. Provision was made at Chesterville station for the accurate measurement of power taken by Chesterville rural power district.

**Martintown Rural Power District**—There has been an increase in the number of consumers during the year. Meetings were held in the district to submit information on the cost of service to rural residents.

**Prescott Rural Power District**—Several services have been added to the lines in this district during the year. Street lighting in Spencerville was extended by adding several lamps.

## RIDEAU SYSTEM

Due to improvement in the storage conditions in the headwaters of the Mississippi river and greater rainfall, no shortage of water, such as prevailed in the previous fiscal year, was experienced this year. It was, therefore, not necessary to operate auxiliary steam plants. There was a reduction in power loads, due to adverse industrial conditions in certain municipalities. However, the general financial condition of this system has continued to improve. Investigations respecting possible new developments on the Mississippi river, are being made with a view to having additional power supply for the system when the present capacity becomes fully utilized.

**Carleton Place**—The municipal commission has decided to discontinue the policy of merchandising electrical appliances, and the use of premises formerly occupied for this purpose has been discontinued. Office space for the utility was provided in the town hall.

**Kemptville**—The municipality has had a successful year, with additions to power loads. Following the settlement of a dispute between the municipality and the private power company which previously supplied power, all lines of the private company have been removed from the streets.

**Lanark**—The village has completed its second year with a surplus, although a reduction of rates took place at the beginning of the year.

**Perth**—Reduction of rates was also made in this municipality, which has completed a successful year.

**Smiths Falls**—Extensions have been made to the distribution system and an improved system of street lighting for the business street of the town has been designed and will be installed early in the new year. One of the larger power customers in the town has reduced his load, due to adverse industrial conditions.

## THUNDER BAY SYSTEM

The extensions to the development at Cameron Falls previously authorized were carried on throughout the year and the third and fourth units were placed in operation. A new transmission line between the development and Port Arthur, and an extension of the transmission line from Bare Point to Fort William were constructed and placed in operation. These extensions were required to take care of demands on the system, which have greatly increased throughout the year. Service was given for the first time to the Great Lakes Paper Company, at Fort William; the demand of this company approximates 10,000 horsepower. This load, together with increased demands at Port Arthur, will bring the total demand on the system to approximately 40,000 horsepower. On completion of arrangements the Kaministiquia Power Company was supplied with power over the transmission lines of the Public Utilities Commission of Port Arthur. Arrangements have also been completed for installing the fifth and sixth units at the Cameron Falls development, and it is expected that the six units covered by the original design of this generating station will all be installed and in operation before the close of the next fiscal year. Assistance



was given to the municipality of Port Arthur in connection with the application of rates, execution of contracts and other matters of a similar nature.

The original substation and transmission lines constructed by the Commission in order to supply power to the municipality of Port Arthur from the, Kaministiquia Power Company were sold to the Public Utilities Commission of Port Arthur, so that at the present time the Hydro-Electric Power Commission has no capital invested in the Thunder Bay system other than that represented by the development at Cameron Falls, the transmission lines from Cameron Falls to Port Arthur, and the substation at Bare Point.

## OTTAWA SYSTEM

**Ottawa**—The use of electricity in the home, for cooking and general purposes, already extensive, is continuing to increase, causing a corresponding increase in the power requirements of the system. The municipal commission is providing for additional capacity in lines and station equipment, which works are at present considerably taxed in supplying the customers. Some investigations have been made in the matter of securing additional blocks of power in this district, to supplement the present available supply which will shortly all be in use.

**Nepean Rural Power District**—A considerable extension of lines in this district has been made, including one line of five miles to serve the village of Manotick. Many additional parties have been given services and customers, in general, are making increased use of the service.

## CENTRAL ONTARIO AND TRENT SYSTEM

In the Central Ontario district in 1924 there were no outstanding increases in the power load supplied, and the quiet commercial conditions reported in 1923 continued.

The power developments at Dam No. 8 and Dam No. 9 on the Trent river are under construction. The plant at Dam No. 8 is practically completed and has carried load since September. Satisfactory progress has been made on the generating station at Dam No. 9 and it is expected that this plant will be ready early in 1925. Both of these stations are of the automatic type and will be controlled from the station at Ranney Falls (Dam No. 10).

Investigations on the possibilities of increasing the power supply on the Trent river by utilizing the Crow river storage basin were continued, and a report is in preparation covering the power possibilities and the economic features of storage in this basin.

**Bowmanville**—The increase in the use of domestic appliances necessitated large increases in secondary copper.

**Cobourg**—A new 1,500 gal. per min., motor-driven pump was installed in the Cobourg pumping station.

**Havelock**—The Canadian Pacific Railway Company is now supplied with power from the Havelock system. The contract is for 200 horsepower.

**Kingston**—The Kingston Public Utilities Commission completed the construction of a new building for office accommodation. The administrative,

billing and appliance-sales departments are now located in this building. The offices were officially opened on May 9, by Sir Adam Beck.

**Newcastle**—The distribution system in the business section of the town was reconstructed.

**Orono**—Extensive improvements to the distribution system were completed.

**Oshawa**—An appropriation was approved for the installation of a 3,000-kv-a. transformer in the Oshawa substation and the rearrangement of the low-tension feeders to provide for additional load.

**Peterborough**—The new municipal substation at Peterborough came into operation on April 26, 1924. A feature of this station is a synchronous-motor-driven, direct-connected, motor-generator set rated at 1,500 kv-a., a-c., and 500 kw., d-c. This set is owned jointly by the Hydro-Electric Power Commission of Ontario and the Peterborough Utilities Commission and is used to supply 600-volt direct current to the Peterborough radial railway and also for power-factor correction on the municipal load.

**Warkworth**—An extension of the Warkworth distributing system to serve a suburban section north of the village was completed.

## CENTRAL ONTARIO AND TRENT SYSTEM—RURAL

Estimated rates based on the provisions of the Rural Hydro-Electric Distribution Act were forwarded to the following townships: Camden, Douro, Emily, Hallowell, Madoc, Ops, Percy, Rawden, Seymour, Sheffield, Thurlow, Verulam.

Construction was completed in the following districts:

**Trenton Rural Power District**—In service December 22, 1923.

**Bowmanville Rural Power District**—In service December 31, 1923.

**Kingston Rural Power District**—A two-and-one-half-mile extension in this district was completed in January, 1924.

Contracts have been signed in Haldimand township covering service on the Kingston road west of Colborne, and including the village of Grafton.

The Commission approved of rural power districts as follows: Belleville, Brighton, Campbellford, Cobourg, Colborne, Deseronto, Lakefield, Madoc, Marmora, Norwood, Picton, Port Hope, Stirling, Sulphide, Warkworth, and Wellington.

## NIPISSING SYSTEM

Construction work on the new development at Bingham Chute was sufficiently far advanced to place the first unit in operation on December 2, 1923. The second unit was placed in operation on March 31, 1924, and the construction completed. This development increases the generating capacity of the Nipissing system by approximately 1,200 horsepower. The turbines at the Nipissing development were overhauled and larger generating units installed. Construction work on a new pipe-line at this development is almost completed and it is expected to be placed in operation early in the coming year.

When the Bingham Chute development was placed in service, Powassan was supplied direct at generated voltage; the formerly used substation equip-

ment which was thus released was removed and installed at Callander to take care of increased load in that municipality. Plans have been prepared for the remodelling of the Callander distributing system, and it is expected that this work will be proceeded with at an early date.

Due to the increased load in North Bay it has been necessary to enlarge the distribution system, and as a result of investigations made during the year an additional 750-kv-a., 3-phase transformer is being installed in the North Bay substation. This installation will be completed and placed in service early in 1925.

## NEW ONTARIO DISTRICT

Assistance was rendered to a number of municipalities in the northern portion of the province which have not as yet executed agreements for a supply of power with the Commission, but which requested advice concerning their power supply. This work was performed for the municipalities of Ansonville, Cache Bay, Cochrane and Sturgeon Falls.

## RURAL DISTRIBUTION\*

During the year the Rural Hydro-Electric Distribution Act was amended to provide for including the transformers and secondary equipment in the grant of the Provincial Government to help meet the disparity between the cost of urban and rural service, the amount of this grant to remain the same as when applied to primary lines only, viz., up to 50 per cent of the cost.

The assistance given by the Province to farmers towards the capital cost of supplying electrical service is in pursuance of a long-established governmental policy of promoting agriculture,—a policy which had previously found expression in the establishment of agricultural schools, colleges and experimental farms, in assistance for road building and in other ways. The assistance thus given makes it possible to extend electric service into certain districts relatively thinly populated, and so far from sources of electrical supply that service would not otherwise be financially feasible. The rural grant is of no advantage to the power system as a whole, because the general demand for power in the Province is such as readily to absorb all the available supply. On the other hand, the beneficial influence of rural electrical service on agriculture and upon the general economic life of the province of Ontario is already a factor of importance and worth.

The minimum of three farm contracts per mile of line constructed, or the equivalent, is still the standard requested by the Commission as the basis of the application for the grant towards rural lines.

The classification of services established to distribute equitably the cost to users shows the estimated net annual service charge, class demands and estimated monthly consumption.

Below are itemized the rural extensions approved this year, the capital, the amount of the Provincial grant, and the consumers in groups of hamlet and farm contracts. The summary of rural line extensions gives a record of the systems built prior to June 1, 1921, as well as the total from June 1, 1921, to October 31, 1924. The Provincial grant is for one-half the total cost.

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\*Consult the Sixteenth Annual Report, pages 68 *et seq.*



## RURAL EXTENSIONS

During the year, there were 285 miles of primary line constructed, rehabilitated and absorbed, of which thirty-eight miles were underground cable, and arrangements have been completed to construct a large number of additional rural lines during the coming year.

The following tabulation shows, in detail, the extensions approved this year, the number of consumers, the capital, the amount of the Provincial grant approved by the Government and the load taken:

Miles of line..... 146.42

### Number of consumers

	Hamlet	Farm	
Niagara system.....	3,990	875	
Georgian Bay system			
Severn division.....	8	26	
Eugenia division.....	1	2	
Wasdells division.....	23	24	
St. Lawrence system.....	4	2	
Ottawa system.....	28	17	
Central Ontario and Trent system	5	14	
Totals.....	4,059	960	5,019

Total capital approved for primary line extensions..... \$321,102.61

Amount of Provincial grants approved by Order-in-Council..... \$160,551.30

### Power supplied in rural districts to serve farm, hamlet and power customers

	Horsepower
Niagara system.....	7,124
Georgian Bay system—Severn division.....	57
“ “ “ —Eugenia division.....	4
“ “ “ —Wasdells division.....	50
St. Lawrence system.....	89
Ottawa system.....	54
Central Ontario and Trent system.....	203
Total.....	7,581

New contracts were executed by twenty townships, of which twelve are already being served. At the request of various township councils fifty-four meetings were held in different parts of the Province at which the question of rural power supply was discussed and explained in detail; moving pictures were shown describing the use and application of farm appliances and a demonstration was made at the annual Provincial ploughing match. At most of these meetings committees were appointed to pass on to those interested this information regarding distribution of power in rural districts, the uses that might be made of the power when it is available and general information regarding equipping the premises for light and power.

To date the Commission, having agreements with the following townships, has built lines to serve consumers.

**Niagara System:** Ancaster, Anderdon, Barton, Bertie, Beverly, Biddulph, Blandford, Blenheim, Bosanquet, Brantford, Burford, Caradoc, Chatham, Chinguacousy, Clinton, Colchester South, Crowland, Delaware, Dereham, Dorchester North, Dorchester South, Downie, Dover East, Dumfries North,

Dumfries South, Easthope North, Easthope South, Ekfrid, Ellice, Esquering, Etobicoke, Flamboro East, Georgina, Glanford, Gosfield North, Gosfield South, Grantham, Gwillimbury North, Harwich, Hay, Howard, Humberstone, King, Lobo, London, Louth, Maidstone, Malahide, Malden, Markham, Mersea, Middleton, Moore, Mosa, Niagara, Nissouri East, Nissouri West, Norwich North, Norwich South, Orford, Oxford East, Oxford North, Oxford West, Pelham, Raleigh, Rochester, Saltfleet, Sandwich East, Sandwich South, Sandwich West, Sarnia, Scarboro, Sombra, Southwold, Stamford, Stephen, Thorold, Tilbury East, Toronto, Townsend, Trafalgar, Usborne, Vaughan, Waterloo, Wellesley, Westminster, Willoughby, Wilmot, Woodhouse, Woolwich, Yarmouth, York, York North, Zorra East.

**Georgian Bay System—Severn division:** Flos, Nottawasaga, Oro, Sunnidale, Tay. **Eugenia division:** Artemesia, Bentinck, Brant, Derby, Kinloss. **Wasdells division:** Brock, Eldon, Mariposa, Mara, Reach, Thorah.

**St. Lawrence System:** Augusta, Charlottenburg, Edwardsburg, Elizabethtown, Kenyon, Lancaster, Winchester, Williamsburg.

**Ottawa System:** Nepean.

**Central Ontario and Trent System:** Darlington, Kingston, Murray, Pickering, Whitby, Whitby East.

Summaries of information relating to rural line extensions, including expenditures and Provincial grants, are, for the townships just listed, presented below.

#### SUMMARY OF RURAL LINE EXTENSIONS

(a) Operation previous to June 1, 1921.

(b) Approved by the Commission from June 1, 1921, to October 31, 1924.

##### Miles of primary lines

(a) .....	305.54	
(b) .....	899.65	
Total.....		1,205.19

##### Number of consumers

(a) Suburban.....	7,185	
Hamlet.....	1,410	
Farm.....	1,750	
		10,345
(b) Hamlet.....	7,007	
Farm.....	3,253	
		10,260
Total.....		20,605

Contracts not yet connected..... 1,950

##### Total rural capital expenditure approved to October 31, 1924

(a) .....	\$517,911.77	
(b) .....	1,928,215.96	
Total.....		\$2,446,127.73

##### Provincial grants approved by Order-in-Council to October 31, 1924

(a) .....	\$258,955.89	
(b) .....	955,965.25	
Total.....		\$1,214,921.14

When contracts between the consumer and the township have been executed, users of power in townships are supplied with service under classifications as set out below. Following the classification a table is presented showing the class demands in horsepower, the estimated monthly consumption in kilowatt-hours and the estimated net annual service charge.

### CLASSIFICATION OF SERVICES FOR RURAL DISTRICTS

**Class I:** Hamlet Service—Includes service in hamlets, where four or more customers are served from one transformer. This class excludes farmers and power users. Service is given under two sub-classes as follows:

**1-B:** Service to residences and stores for lighting and small appliances. Use of appliances over 750 watts permanently installed is not permitted under this class.

**1-C:** Service to residences with electric range or permanently installed appliances greater than 750 watts.

Special or Unusual loads will be treated specially.

**Class II-A:** House Lighting—Includes such contracts as residences which cannot be grouped as in Class I. This class excludes farmers and power users.

**Class II-B:** Farm Service, Small—Includes lighting of buildings and power for miscellaneous small equipment and power for single-phase motor not exceeding 2-horsepower, or an electric range (range and motor not to be used simultaneously) on a small farm of 10 acres or less in fruit growing districts and 50 acres or less in mixed farming or dairy districts.

**Class III:** Farm Service, Light—Includes lighting of farm buildings, power for miscellaneous small equipment, power for single-phase motors, not to exceed 3-horsepower demand, or electric range. Range and motors are not to be used simultaneously.

**Class IV:** Farm Service, Medium Single-Phase—Includes lighting of farm buildings and power for miscellaneous small equipment, power for single-phase motors, up to 5-horsepower demand, or electric range. Range and motor are not to be used simultaneously.

**Class V:** Farm Service, Medium 3-Phase—Includes lighting of farm buildings and power for miscellaneous small equipment, power for 3-phase motors, up to 5-horsepower demand, or electric range. Range and motor are not to be used simultaneously.

**Class VI:** Farm Service, Heavy—Includes lighting of farm buildings and power for miscellaneous small equipment, power for motors, up to 5-horsepower demand and electric range, or 10-horsepower demand without electric range.

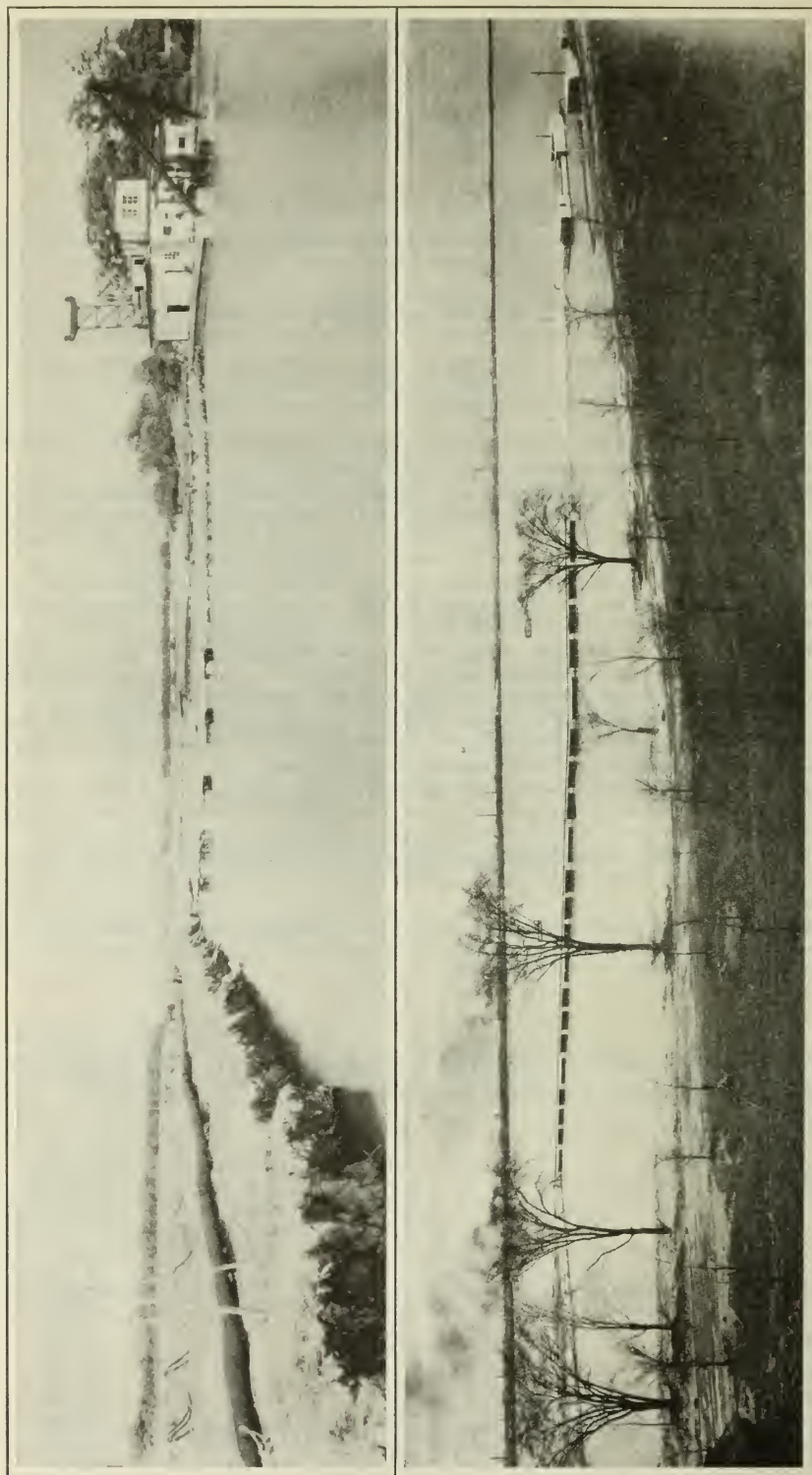
**Class VII:** Farm Service, Special—Includes lighting of farm buildings, power for miscellaneous small equipment, power for 3-phase motors from 10- to 20-horsepower demand, and electric range.

**Class VIII:** Syndicate Outfits—Includes any of the foregoing classes which may join in the use of a syndicate outfit, provided the summation of their relative class demand ratings is equal to the kilowatt capacity of the equipment.

### CLASS DEMANDS, ESTIMATED MONTHLY CONSUMPTION AND ESTIMATED ANNUAL SERVICE CHARGE IN RURAL POWER DISTRICTS

Class	Name	Class demand horsepower	Estimated monthly consumption kilowatt-hours	Estimated net annual service charge
I	Hamlet Service { b. lighting, etc. ....	1	15	\$ c. 19.44
	{ c. lighting, range, etc. ....	2 $\frac{3}{4}$	150	35.64
IIA	House Lighting. ....	1 $\frac{1}{2}$	15	24.30
IIB	Farm Service, Small. ....	2 $\frac{3}{4}$	25	37.26
III	Farm Service, Light. ....	4	40	49.14
IV	Farm Service, Medium Single-Phase. ....	6 $\frac{3}{4}$	70	51.30
V	Farm Service, Medium Three-Phase. ....	6 $\frac{3}{4}$	70	62.10
VI	Farm Service, Heavy. ....	12	150	89.64
VII	Farm Service, Special. ....	20	300	142.56





## QUEENSTON-CHIPPAWA POWER DEVELOPMENT

- a. Canalized river looking east, showing on the left the cut bank at edge of cableway disposal area and on the right dredge "Stewart"
- b. Intake and ship canal looking from Chippawa across the Niagara river to Niagara Falls, New York

## SECTION IV

### HYDRAULIC ENGINEERING AND CONSTRUCTION

During the fiscal year 1924 considerable progress was made on the work that is under the direction of the Hydraulic department. Among the items of greater importance may be mentioned the placing in operation of unit No. 6 and the advancement towards completion of units No. 7 and No. 8 in the Queenston power house; the construction for and installation of units No. 3 and No. 4 of the Nipigon development; also the construction of plants at Dam No. 8 and Dam No. 9 on the Trent river. The year's work also covered construction in connection with additions to the capacity of the South Falls plant on the Georgian Bay system, and to the Nipissing and Bingham Chute plants on the Nipissing system. Surveys and investigations were made in connection with further power possibilities—notably on the Niagara, St. Lawrence and Ottawa rivers. A more detailed account of the above activities and of other work carried on by the Hydraulic department is given below.

### NIAGARA SYSTEM

#### QUEENSTON-CHIPPAWA DEVELOPMENT

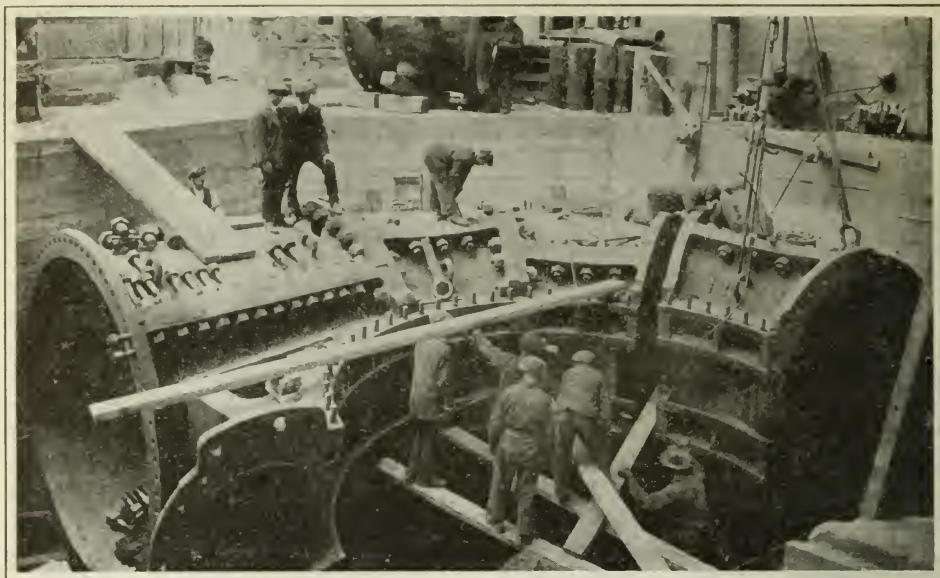
The work on the Queenston-Chippawa development during the past year consisted chiefly of an extension to the power house beyond unit No. 5, the installation of further units, dredging in the Welland river and in the earth section of the canal, and protection for canal banks.

The dredging is being done by the E. O. Leahey Company, Limited, of Ottawa, by means of two large suction dredges, the disposal being carried sometimes for considerable distances from the point of operation. It is expected that all the dredging required will be completed in the coming summer, thereby providing a waterway of sufficient size for the ultimate capacity of the development.

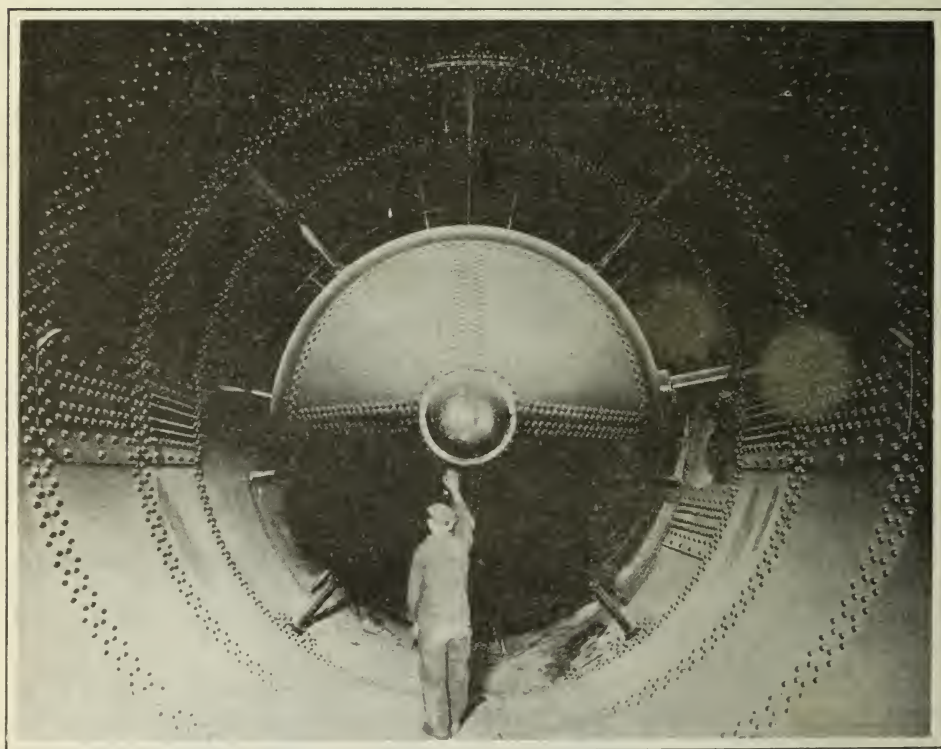
In the rock section of the canal considerable work has been carried on for the protection of the canal banks. These betterments include concrete and masonry toe walls, concrete lining below the rock surface, scaling and guniting rock walls and trimming slopes and berms.

During the year work has proceeded on the installation of four more large generating units at the power house which, with the five units already installed, will give a capacity of over 500,000 horsepower. This work involved considerable rock excavation and placing of concrete, and the installation of pen-stocks, Johnson valves, turbines and other hydraulic equipment.



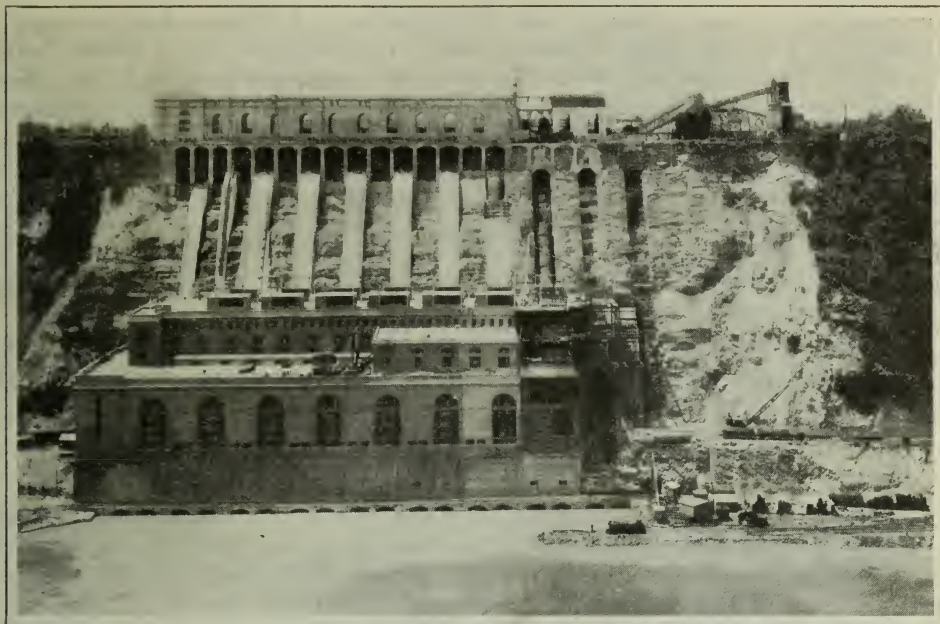


QUEENSTON-CHIPPAWA POWER DEVELOPMENT  
Power house. Erection of turbine scroll case for unit No. 7



QUEENSTON-CHIPPAWA POWER DEVELOPMENT  
Power house. Upstream end of Johnson valve for No. 6 unit, taken from interior of penstock





**QUEENSTON-CHIPPAWA POWER DEVELOPMENT**

Screen house and power house as seen from United States side of Niagara river



**QUEENSTON-CHIPPAWA POWER DEVELOPMENT**

Power house in lower Niagara gorge, looking north towards Queenston from University Point on the United States side of the Niagara river

Unit No. 6 was officially started on January 8, 1924. The installation of unit No. 7 is practically complete, and it is expected to be in service before the end of the present year, while No. 8 will be completed early in 1925. Work on unit No. 9 has progressed favourably, and it is expected that this unit will be ready for service about September, 1925.

During January a serious congestion of ice in the lower Niagara river threatened a repetition of the jam which occurred in 1909. Propitious weather conditions, however, averted anything more serious than delay to construction operations. It is interesting to note that the design of the power house provides for protection against a rise in water of 10 feet above the maximum level records in 1909, or 40 feet above that of the present year.

Efficiency tests were made of unit No. 6 at the Queenston plant. These tests were similar to those made on unit No. 5 in this plant, described in the previous Annual Report.

## ONTARIO POWER COMPANY DEVELOPMENT

No. 2 conduit at the plant of the Ontario Power Company was drained for inspection on the night of Saturday, May 10. The conduit was found to be in excellent condition throughout its length, form marks on the concrete were still very distinct and at no place was any damage to the concrete apparent. There is nothing to indicate any change in the friction coefficient of the conduit from the value it had at first. The conduit was perfectly free from any deposits except two small pieces of concrete from some foreign source and a piece of timber.

## GEORGIAN BAY SYSTEM\*

### SOUTH FALLS DEVELOPMENT

The increased demand for power on the Georgian Bay system made it necessary to provide additional generating equipment. To this end an extension to the South Falls plant was started early in the year, which, when completed, will increase the capacity from 1,700 horsepower to 5,400 horsepower. The work consists of replacing the present 700-horsepower unit with a 2,200-horsepower unit, and the addition of a second similar unit, together with the construction of two 7-ft. diameter, wood-stave pipes and the necessary remodelling of the intake structures.

Good progress has been made on the work to date, and it is expected that the first of the new units will be ready for operation by January, 1, 1925, and the second unit a few months later.

### EUGENIA FALLS DEVELOPMENT

To utilize more efficiently the installed capacity of the Eugenia Falls plant it was found advisable to provide a second pipe line. Accordingly a 46-inch diameter wood-stave pipe approximately 3,340 feet long, a steel surge tank of the differential type and a steel penstock approximately 1,600 feet long were installed. The work was completed early in the year, and the installation tested and placed in service in May, 1924.

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\*Consult also page 21.



## ST. LAWRENCE SYSTEM

### **St. Lawrence River Investigations**

Activities in connection with the St. Lawrence river during the fiscal year 1923-24, have been confined mainly to office work, which had to do principally with layout studies and estimates of costs. Plans were prepared which accompanied application to the Ontario Government for the power rights on the St. Lawrence in Ontario, and the application filed with the Department of Public Works, Ottawa, for approval of the proposed scheme of development at Morrisburg.

Toward the end of the year arrangements were made to carry out certain observations and studies of the ice conditions in the St. Lawrence during the coming winter season, and in addition further information regarding foundation conditions at the proposed sites will be secured. To this end a contract for diamond drilling was entered into at the latter end of October.



NIPIGON POWER DEVELOPMENT  
Dam and headworks from upstream side of development

## THUNDER BAY SYSTEM

### **NIPIGON RIVER-CAMERON FALLS DEVELOPMENT**

The demand for more power on the Thunder Bay system resulting largely from the rapid development of the pulp and paper industry in this district, made it necessary to provide additional generating capacity at the Cameron Falls generating station. The installation of units No. 3 and No. 4, commenced in the previous year, was completed. The first of these new units was placed in operation in July and the second in September, 1924. This increased the available capacity of the plant from 25,000 horsepower to 50,000 horsepower.

The steadily increasing demands for power on the system\* necessitated still further additions to the generating capacity and accordingly construction work was started on the substructure for units No. 5 and No. 6. These units will have the same rated capacity as the four now operating, and their completion will bring the total capacity of the plant up to 60,000 horsepower.

\* See diagram, page 32.



### **Regulation of Nipigon River**

The installation of the fifth and sixth units in the Cameron Falls generating station requires that the flow of the river be regulated to ensure an adequate supply of water at all times. Lake Nipigon, having an area of over 1,500 square miles, offers exceptional opportunities for storage, and investigations show that a range of water levels on this lake of nine feet could be secured without undue expense for land damages or control works. This variation is sufficient for complete regulation of the run-off, not only from the Nipigon drainage area, but also from other drainage areas. It is proposed, therefore, to construct a regulating dam at the outlet of the lake to control the outflow and regulate the levels within the range above referred to.

Surveys of the proposed dam site at Virgin falls have been completed.

Preliminary reconnaissance and surveys were made during the year to determine the feasibility of utilizing some of the waters of the James Bay watershed. Information upon this subject is being gathered and studied.

## **CENTRAL ONTARIO AND TRENT SYSTEM**

### **DAM No. 8 DEVELOPMENT—TRENT RIVER**

In the summer of 1924 the general construction work and installation of the units in this development was completed, and the plant placed in operation. This plant marks a new departure in power plant construction by the Commission in that it is designed as a remote control station, and will be operated from the Ranney Falls plant.

Turbine efficiency tests were carried out along with studies of the hydraulic conditions in the long tailrace channel. At this plant it was necessary to excavate a channel for over half a mile from the power house in order to reduce tail-water level to a reasonable elevation and thereby conserve as far as possible the head available in this section of the river. Measurements were made of the slope in this channel for various discharges and the roughness factor determined. The nature of the rock through which the channel is excavated is indicated in the accompanying illustration. The results of the measurements showed losses in the channel slightly less than those calculated in its design.

### **DAM No. 9 DEVELOPMENT—TRENT RIVER**

Early in 1924 the excavation for the tailrace and power-house substructure was started. This plant when completed will have a capacity of 4,800 horsepower in three units of 1,600 horsepower each, and like the Dam No. 8 development will be a remote-controlled station operated from Ranney Falls.

It is expected that the first unit will be ready to carry load by January, 1925, and the other two units shortly afterwards.

### **Trent River Investigations**

Additional information was collected relative to the stream flow on the upper reaches of the watershed with a view to further regulating the flow of the river.



**DAM NO. 8 POWER DEVELOPMENT—TRENT RIVER**

- a. Power house and high-tension outdoor station from southwest. Note the draft tubes of the turbines
- b. Tailrace excavation looking towards power house. Note the character of rock channel

The providing of storage on the Crow river was investigated, and it is anticipated that a definite scheme of water conservation will be determined in the near future.

The progressive compilation and general study of the hydraulic features of power from the Trent canal have been continued.

Further sources of power in the district were investigated and surveys made of possible sites at Burleigh falls, Lakefield, and Dams No. 4 and No. 5 on the Otonabee river.

## NIPISSING SYSTEM

### NIPISSING DEVELOPMENT

During the year the second turbine in the Nipissing generating station was rebuilt. The necessary grading for a new wood-stave pipe was also completed early in the year. The pipe is now being erected and it is expected that it will be in service early in November. A considerable increase in the capacity of the plant is expected when this work is completed. The hazard resulting from continued operation of the old pipe will also be eliminated.

### BINGHAM CHUTE DEVELOPMENT

The work on this development was completed early in December, 1924, and the plant placed in service, thus adding 1,300 horsepower to the capacity of the system, and at the same time conserving the water supply by making double use of the flow in conjunction with the Nipissing plant.

Tests were carried out to determine the efficiency of the turbine units installed, and to measure the various hydraulic losses in the plant. The measurement of water at this plant was made by what is known as the colour injection method, and consistent results were obtained.

### South River Storage

Extensive investigations and surveys have been completed to determine the most economical and best available site for a storage reservoir to conserve the flood waters from the watershed.

It is expected that sufficient storage will be created this coming summer to meet the full installed capacities of the stations at Bingham Chute and at Nipissing, and provide against the shortages that have occurred during low-water periods of stream flow.

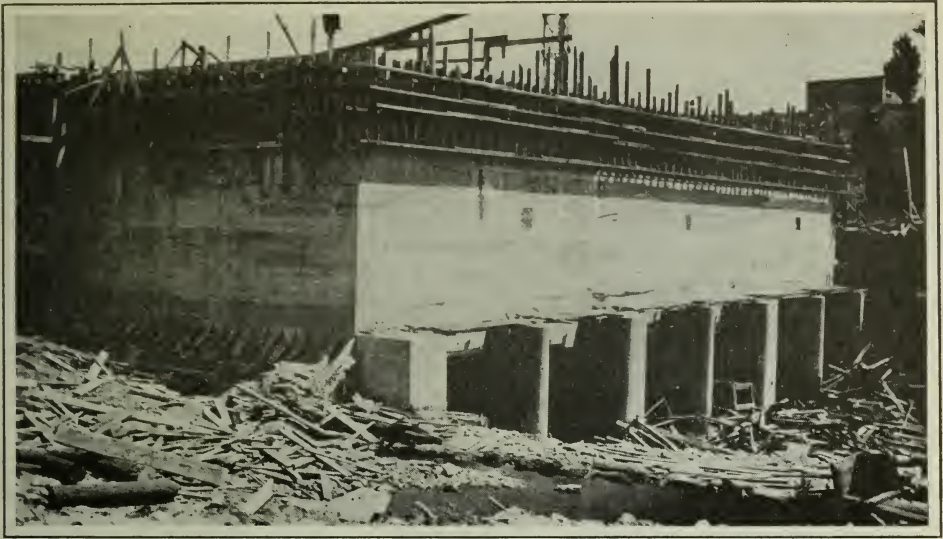
## HYDRAULIC INVESTIGATIONS

### Measurements of Diversions at Niagara

By the provisions of the Boundary Waters Treaty, proclaimed May 13, 1910, an agreement was reached between Great Britain and the United States regarding the diversion of waters from the Niagara river for power development. By the provisions of this Treaty, a diversion of 20,000 cubic feet per second is permitted on the American side of the boundary and 36,000 cubic feet per second on the Canadian side. An International Board known as the Niagara Control Board has been appointed charged with the accurate determination of these diversions.

To comply with the requests of the Niagara Control Board, it has been necessary to carry out investigations at each of the power plants operated by the Commission at Niagara Falls, to make a number of tests of typical units and develop rating curves whereby the records of power output of the plants can be converted into records of water used. From the results of these various tests rating curves were developed and transmitted in reports to the Control Board covering all of the work done in these plants.





**DAM NO. 9 POWER DEVELOPMENT—TRENT RIVER**  
Substructure. Stripping concrete forms from lower half, August 14, 1924

### **Moon and Musquash Rivers**

Surveys were carried out during the year on the Moon and Musquash rivers throughout their length, and studies were made of possible power sites. It appears possible to develop over 20,000 horsepower in this area by means of various head concentrations, and preliminary estimates are being made to ascertain the most economical layouts.

### **Mississippi River**

The present storage in the Mississippi river is provided by the Mississippi River Improvement Company, and close connection with this company is maintained by the Hydraulic department. The company has augmented the storage on this system during the past year by the erection of a temporary dam at the foot of Mazinaw lake. Additional storage was also secured by means of repairs to some of the old dams at other lakes.

### **Ottawa River**

Extensive surveys of the Ottawa river between Des Joachims and Mattawa were commenced in June, 1924, and are still being carried on. Preliminary estimates and layouts were also made of sites in the vicinity of Calumet island.

### **Miscellaneous**

Investigations in connection with the cause and amounts of variation in water level in the Niagara river are in progress.

Reports on several proposed developments were made upon the request of the Minister of Lands and Forests; and much general information has been supplied in answer to various enquiries with respect to stream flow and possible power sites throughout the Province.

## SECTION V

### ELECTRICAL ENGINEERING AND CONSTRUCTION

#### (STATION SECTION)

### NIAGARA SYSTEM

#### QUEENSTON GENERATING STATION

The erection of the superstructure excepting certain details is complete for eight units, and a temporary end wall is erected immediately north of No. 8 unit.

No. 6 generator was complete and ready for service in December, 1923. Electrical tests, including sudden short circuit, were conducted on this unit in January, 1924, and the early part of February, but on February 5, during insulation test, one armature coil failed. This was replaced by the Canadian Westinghouse Company under its contract, and the insulation test successfully carried out. The unit was first connected to the load on May 6, 1924, and was put into regular service on May 15, 1924.

Erection of No. 7 generator is nearly complete and the unit should be ready for service early in December, 1924.

No. 8 unit should be ready for operation about March, 1925.

The transformer bank, with switching and control equipment and auxiliaries for No. 6 unit was placed in service with the generator, while similar equipment for Nos. 7 and 8 units is being installed and will be ready by the time the respective generators are ready to go into service.

On April 10, 1924, authorization was given for the purchase and installation of a 100 line (P.A.X.) private automatic telephone exchange to provide improved communication facilities. This installation should be completed early in December.

A special signal and telephone system for operating purposes is being provided between the control room, generator pedestals, turbine deck and generator-room operating gallery.

A permanent pole line, to be used as a standby for service power, has been installed from the Ontario Power Company 12,000-volt lines to the Queenston power house and placed in service.

A Warren type "A" master clock, and type "B" secondary clock have been ordered. These will be used by the operator in maintaining constant average frequency on the Niagara system.

#### Screen House

Construction of the 100-foot extension to the screen house to take care of Nos. 7 and 8 units has been completed.

Work has been continued on the interior finish of the Administration building at the south end of the screen house, and is now practically completed.



#### QUEENSTON-CHIPPAWA POWER DEVELOPMENT

Administration building and screen house. View shows the south front. The forebay is on the left and the Niagara gorge on the right

General plans have been prepared for landscape improvements in the adjoining grounds, and following this general scheme, a roadway has been put in and the flower beds, grass lawn, stone terrace wall, tree and shrub planting have been completed immediately south of the building. A small part of the terracing and planting has also been completed on the east side.

#### Extension for No. 9 Unit

Authorization was given on June 12, 1924, to proceed with the extension of the development for a ninth unit and to have it ready for service at the time of the peak load in 1925.

Plans have been prepared for an extension 50 feet to the north of No. 8 unit, of construction and architectural design similar to the existing buildings.

On May 22, 1924, the Commission authorized the purchase and installation of one Canadian General Electric Company 54,000 kv-a. generator complete with accessories, duplicate of Nos. 7 and 8 machines. The order was placed on June 17, 1924, and includes changes in the armature connections of Nos. 4, 5, 7 and 8 units by which each phase winding will be divided into two separate parallel circuits so that more complete generator relay protection may be installed.

On June 4, 1924, authorization was given for the purchase and installation of three 18,330 kv-a. Canadian Westinghouse Company transformers, similar in all respects to transformers in Nos. 6, 7 and 8 banks. The order was placed on June 20, 1924, and the transformers will be ready for installation with No. 9 generator.

#### Screen House Extension

Plans have been prepared for a 50-foot extension, of similar design to the existing building, to house the gates and screens for No. 9 unit penstock. The structural steel has been delivered and erected.



## **NIAGARA TRANSFORMER STATION**

### **Lincoln Distributing Station**

The construction of this station, as outlined in the 1923 Annual Report, was completed in June, 1924, with the exception of moving the Grantham township feeder equipment to its new location in the station and changing it from 2,300- to 4,000-volt service.

### **Niagara-on-the-Lake Municipal Station**

In September, 1923, the Commission authorized engineering assistance to the Hydro-Electric System of Niagara-on-the-Lake in the purchase and installation of the necessary equipment for a 300 kv-a. pole-type station. Necessary plans were prepared and material purchased.

The installation was completed by the local Commission and the station placed in service on May 26, 1924.

## **DUNDAS TRANSFORMER STATION**

### **Caledonia Distributing Station**

Additional ventilation was provided in the building.

### **Decewsville Distributing Station**

To provide power for the village of Cayuga and the surrounding district, the Commission, on April 15, 1924, authorized the installation of a pole-type station at Decewsville. Plans were prepared and equipment purchased for a station to consist of a 300 kv-a., 3-phase, outdoor-type transformer with 13,200-volt choke-coils, disconnecting-switches and fuses, and one 4,000-volt feeder. The station was placed in service on October 27, 1924.

## **TORONTO—BRIDGMAN AVENUE TRANSFORMER STATION**

The station, as outlined in the 1923 Annual Report, was completed and was first tested out in October, when all the 110,000-volt equipment and the two transformer banks were placed in operation.

## **TORONTO—WILTSHIRE AVENUE TRANSFORMER STATION**

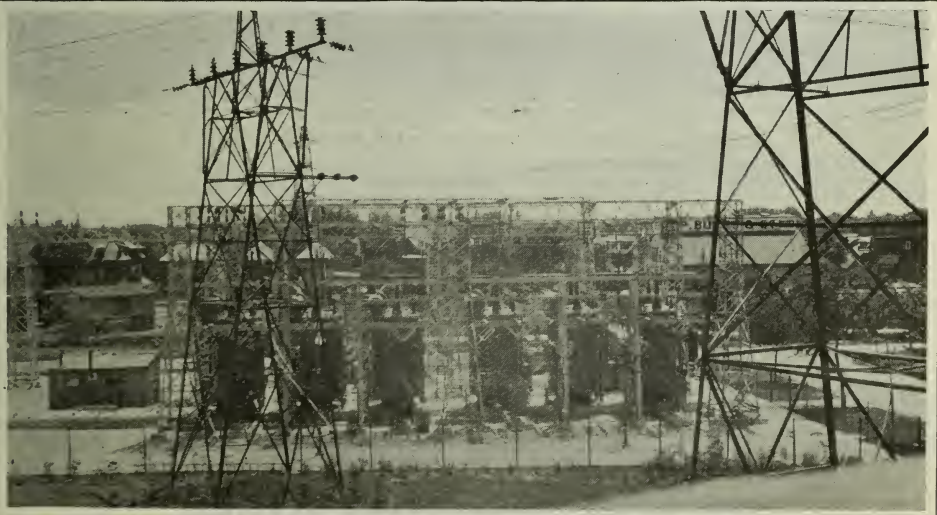
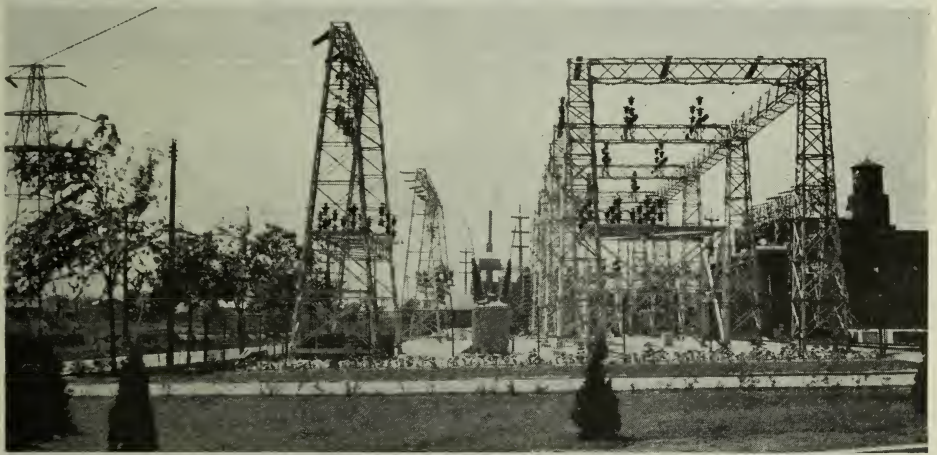
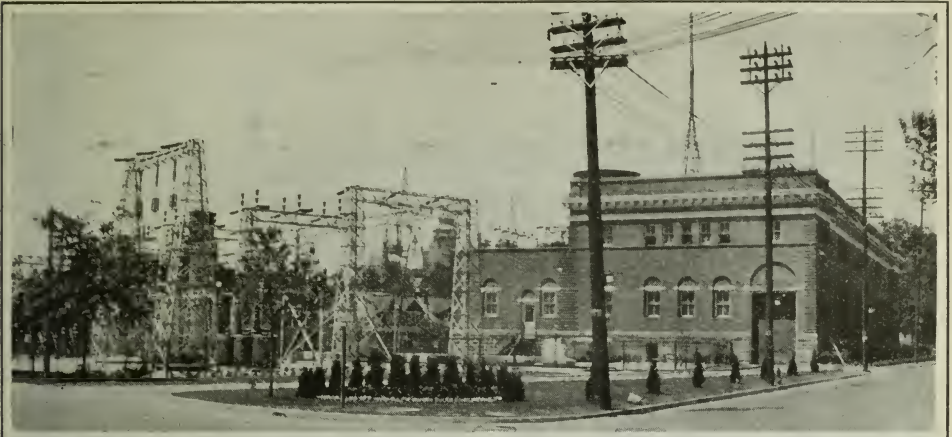
The station was placed in service on October 8, 1924, to carry a section of the city load following trouble at Strachan Avenue transformer station.

Plans have been completed for the installation of the third bank of transformers during the summer of 1925.

## **TORONTO—DAVENPORT TRANSFORMER STATION**

### **Canadian National Railway Shops Metering Station**

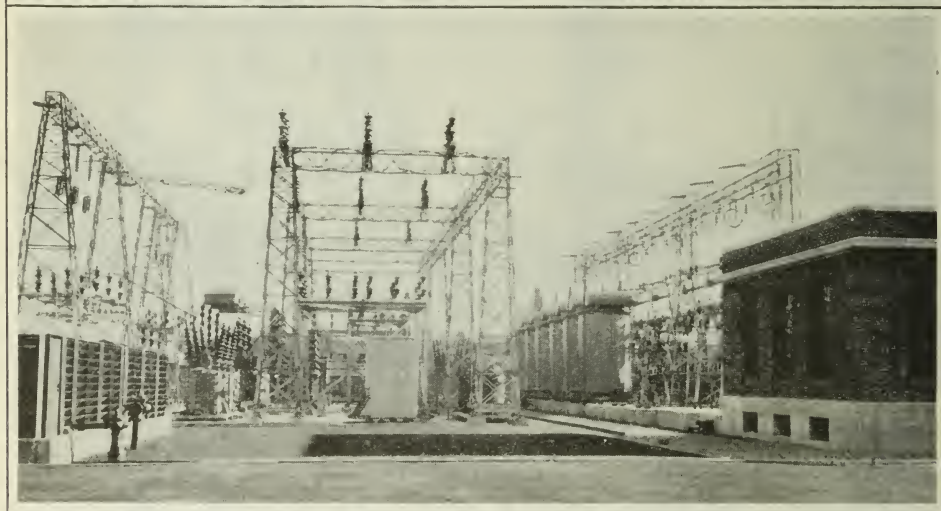
Due to the rearrangement of the 12,000-volt lines in the Leaside district, it was necessary to move the 12,000-volt metering-equipment for the above load from Toronto Davenport transformer station to the Canadian National Railway shops at Leaside. This change was completed in February, 1924.



TORONTO, BRIDGMAN AVENUE TRANSFORMER STATION

- a. General view
- b. View looking west
- c. View looking south





**TORONTO, WILTSHIRE AVENUE TRANSFORMER STATION**

- a. Control and service building
- b. Outdoor structure and two 15,000-kv-a. banks of transformers

## **LONDON TRANSFORMER STATION**

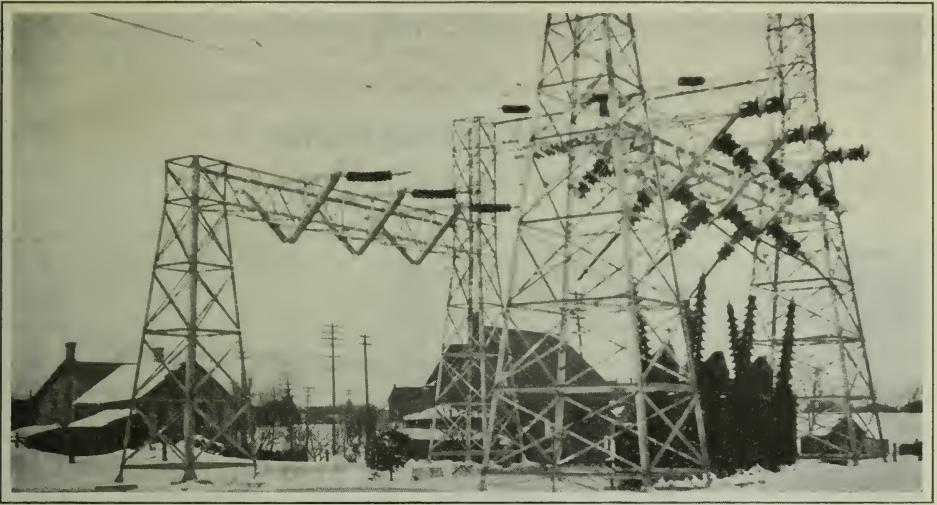
### **Broughdale Distributing Station**

In order to supply 4,000-volt power to London township and the London rural district, authorization was given in June, 1924, to construct an outdoor substation at Broughdale, with three 150 kv-a., single-phase, outdoor-type transformers. The installation should be completed in November, 1924.

## **KITCHENER TRANSFORMER STATION**

In December, 1923, authorization was given to install the necessary equipment for connecting up the spare 13,200-volt oil circuit-breaker to the 13,200-volt





**KITCHENER TRANSFORMER STATION**  
Switching structure, 110,000-volt lines

busses in order to supply a second underground feeder to Kitchener municipality. This work was completed on June 18, 1924.

Authorization to increase the station capacity and to make certain other changes was given in June, 1924.

Plans are being prepared for this work which will include the installation of a bank of three 5,000 kv-a. transformers, and changes in the building and switching equipment.

### **Elmira Distributing Station**

To take care of the increasing load at this station, authorization was given on September 26, 1924, to increase the transformer capacity. Three 250 kv-a. transformers were purchased and will be installed outside the station on a concrete pad. The installation should be complete in November, 1924.

### **St. Jacobs Distributing Station**

The Commission, on August 20, 1924, authorized the purchase and installation of a 150 kv-a., 3-phase, outdoor-type transformer to replace the 75 kv-a., 3-phase transformer. The new equipment was placed in service on September 24, 1924.

## **STRATFORD TRANSFORMER STATION**

### **Harriston Distributing Station**

Authorization was given on March 21, 1924, to purchase and install the necessary equipment to supply 4,000-volt power to the municipality of Clifford. The feeder was placed in service on May 11, 1924.

### **Palmerston Distributing Station**

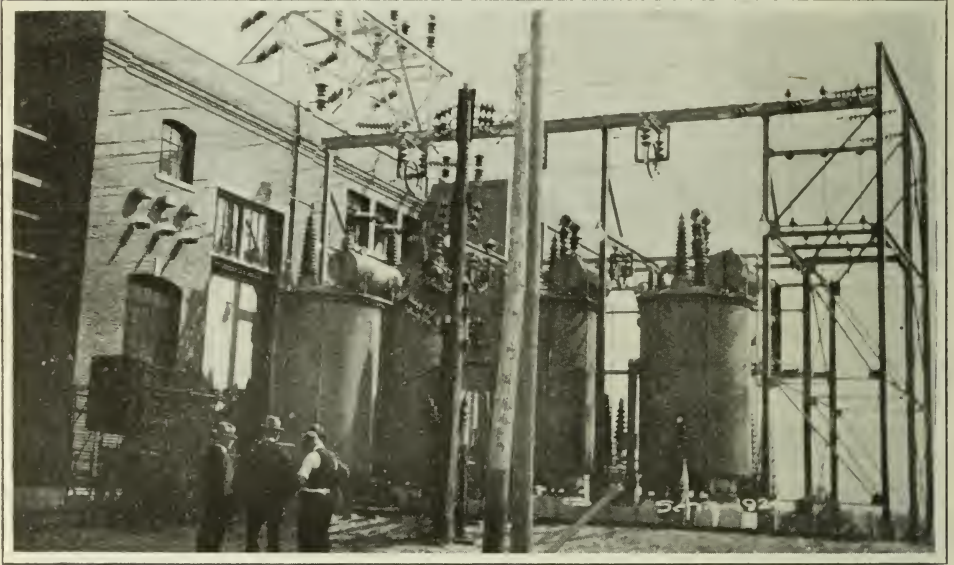
Authorization was given on September 25, 1924, to increase the transformer capacity. Three 150-kv-a. transformers, to be released from Elmira distributing

station, will replace the existing bank. This work should be completed in December, 1924.

Additional ventilators have been installed in the building.

### **Walton Distributing Station**

The station was placed in service on July 11, 1924.



**BRANT TRANSFORMER STATION**  
Outdoor bank of three 5,000-kv-a. transformers

### **BRANT TRANSFORMER STATION**

New outdoor 26,400-volt oil circuit-breakers were installed temporarily in three of the existing feeders to insure more reliability of service.

### **COOKSVILLE TRANSFORMER STATION**

#### **Milton Municipal Station**

On May 7, 1924, the Commission authorized engineering assistance to Milton Hydro-Electric System in the installation of an additional bank of three 200-kv-a. transformers (purchased by the local Commission from Paris municipality), the purchase and installation of an additional 4,000-volt feeder-panel and the rearrangement of the present low-voltage layout.

The work was done by the Commission and the transformers placed in service on September 15, 1924.

### **KENT TRANSFORMER STATION**

#### **Blenheim Distributing Station**

The Commission, on August 20, 1924, authorized the installation of three 150-kv-a. transformers, which had been released from Wallaceburg distributing

station, to replace the present three 75-kv-a. transformers. The 150-kv-a. transformers were placed in service on October 12, 1924.

Five new wall ventilators were installed.

### **Sarnia Municipal Station No. 2**

The Commission on July 23, 1924, authorized engineering assistance to the Sarnia Hydro-Electric System in the design of a semi-outdoor station and in the purchase and installation of the equipment necessary to take care of the increasing load in the southern section of the city. Plans have been prepared and all material ordered and contract let for a station to be located on the St. Clair transformer station property at Vidal and St. Andrew Streets. The design is for an ultimate installation of five 3-phase transformers and six 4,000-volt feeders. At present only two 1,500-kv-a., 3-phase, outdoor type English Electric Company transformers will be installed with the necessary 26,400-volt switching equipment mounted on a steel structure, and the switchboard, oil circuit-breakers and meters for two 4,000-volt feeders and low-voltage transformer leads housed in a brick building. The station will be fed temporarily over the new 110,000-volt line to St. Clair transformer station.

### **Wallaceburg Distributing Station**

To take care of the increasing load on the station and the loss of capacity due to the failure of two 150-kv-a. transformers in No. 1 bank, authorization was given on June 5, 1924, to install a 1,500-kv-a., 3-phase transformer. This transformer was placed in service on June 27, 1924.

## **ESSEX TRANSFORMER STATION**

### **Kingsville Distributing Station**

Improvements to the metering equipment were completed on September 3, 1924.

The Commission on August 20, 1924, authorized the installation of a second bank of three 75-kv-a., single-phase, indoor-type transformers, released from Blenheim distributing station.

### **Leamington Distributing Station**

Improvements to the metering equipment were completed on August 26, 1924.

### **Sandwich Distributing Station**

The Commission on June 10, 1924, authorized the purchase and installation of the equipment necessary for a semi-outdoor-type station to be located in the town of Sandwich at Bloomfield road and South Street. Plans have been prepared and a 1,500-kv-a., 3-phase, outdoor-type transformer purchased. This will be installed outdoors with the 26,400-volt switching equipment. The switchboard, totalizing meters, oil circuit-breakers and equipment for two 4,000-volt feeders will be housed in a brick building.

### **Windsor Converter Station**

In August, the Commission authorized the construction of a synchronous-converter station in Windsor to supply additional power to the Essex district



of the Hydro-Electric Railways. Owing to the urgent demand for this additional power and possible early developments in the railway load, it was decided to build a temporary station on MacDougall Avenue approximately 150 feet north of the Windsor municipal station.

Drawings which have been completed provide for one 26,400-volt incoming line, two synchronous converters with transformers, and five 600-volt d.c. feeders.

One 500-kw., 600-volt, 6-phase converter with a.c. and d.c. switching-equipment and two d.c. feeder panels obtained from Whirlpool distributing station, and one 550-kv-a., 26,400/440-volt transformer will comprise the first installation, which is expected to be in service in December, 1924.

### **YORK TRANSFORMER STATION**

Authorization was given to construct two new operators' houses. Plans were accordingly prepared and the contract awarded to Mr. J. W. McClintock, of Mimico. These houses will include all modern conveniences and the surrounding grounds will be graded and fenced. Construction is to be finished by November 30, 1924.

### **Woodbridge Distributing Station**

In January, 1924, authorization was given to purchase and install outside the station one 150-kv-a., 3-phase, outdoor-type transformer with necessary 13,200-volt switching-equipment; also to change the 4,000-volt bus to enable the village of Woodbridge to be fed from the 150-kv-a. transformer and the village of Bolton and the rural district from the existing bank of three 75-kv-a. transformers. This installation was placed in service on May 11, 1924.

Pole-type lightning-arresters were installed on October 26, 1924.

### **ST. CLAIR TRANSFORMER STATION**

The Commission on May 21, 1924, authorized the erection of a new 110,000-volt outdoor transformer station to be known as St. Clair transformer station with an initial installation of one bank of three 2,850-kv-a., 63,500/26,400-volt transformers with one spare transformer together with the necessary switching-equipment. Provision will be made for adding additional banks as load demands grow.

The station site of approximately seven acres has been purchased on the outskirts of the city of Sarnia immediately south of the Canadian National Railway at the north-east corner of St. Andrews and Vidal streets.

Drawings are being prepared for a complete layout of the station. All disconnecting-switches and busses will be supported on a steel structure. The transformers will be located over concrete tunnels through which all oil and water piping and control cables will be carried. Both high- and low-voltage oil circuit-breakers will be automatic and electrically operated from a control board located in a small brick building to be erected adjacent to the steel structure. This building will also house the storage-battery and motor-generator charging set, the pumps for the water supply to the transformers and the oil filter and tanks. Three outgoing feeders and station service feeders will be installed with provision for future feeders as required.

The construction of this station will be started early in 1925.

## **RADIO COMMUNICATION**

The work in connection with the installation of guided radio-telephone equipment, whereby communication for operation may be carried on between stations, was completed in the following transformer stations: Niagara, Dundas, Toronto (Strachan Avenue), London, Guelph, Preston, Kitchener, Stratford, St. Marys, Woodstock, St. Thomas, Brant, Cooksville, Kent and Essex.

The work, which began in the spring of 1922, was completed and placed in service in 1924.

Authorization was given for the purchase and installation of higher power radio broadcasting and receiving sets at each of the following transformer stations: Toronto, London, Essex, Dundas and Queenston.

Those in Toronto and London were installed in July, 1924, and the one in Essex in August, 1924. It is expected those in Dundas and Queenston will be installed in November or December of this year.

All of the above work has been carried out under the direct supervision of the electrical staff of the Laboratories.

## **GEORGIAN BAY SYSTEM\***

This system comprises the original Eugenia, Severn and Wasdells Systems which are identified herein as divisions.

### **Telephones**

During the year protective equipment was installed in the Eugenia division on the telephones at Chatsworth, Chesley, Dundalk, Elmwood, Grand Valley, Holyrood, Kilsyth, Orangeville, Owen Sound, Shelburne and Walkerton Quarry distributing stations; in the Severn divisions at Alliston, Beeton, Bradford, Camp Borden, Coldwater, Cookstown, Canadian Pacific Railway, Port McNicoll, Elmvale, Penetang, Stayner, Thornton, Tottenham and Victoria Harbour distributing stations; and in Wasdells division at Beaverton and Cannington distributing stations.

## **EUGENIA DIVISION**

### **Chesley Distributing Station**

Authorization was given to replace the three 100-kv-a. transformers with the three 150-kv-a. units from Walkerton Quarry distributing station. Larger capacity current-transformers were also installed and the new work was placed in service on June 15, 1924.

### **Holyrood Distributing Station**

Authorization covering changes in the transformers was given in May, 1924, and the three 100-kv-a., single-phase transformers were removed, while the three 50-kv-a., single-phase units originally at Shelburne distributing station were installed and placed in service on July 26, 1924.

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\*Consult also page 21.

## SEVERN DIVISION

### Midland International Fibre Board Municipal Stations

Engineering assistance was given to the Midland Commission in December, 1923, covering the purchase and installation of two outdoor 22,000-volt distributing stations with metering equipment to be located on the Midland International Fibre Board Company's property.

One station consists of three 150-kv-a., single-phase transformers installed on a concrete pad with a 4-pole structure carrying the necessary 22,000-volt switching equipment.

The other station consists of three 450-kv-a., single-phase transformers with a similar installation.

The instrument transformers are mounted on the pole-structure of the 450-kv-a. transformer bank. The graphic-recording wattmeters are installed in the International Fibre Board Company's building on the customer's panel. The two stations were placed in service on March 4, 1924.

### Waubashene Auto Transformer Station

Authorization was given in March, 1924, to proceed with the purchase and installation of an auto-transformer station at Waubashene of sufficient capacity to handle 6,000-kv-a. from South Falls; however, as it is the intention to temporarily deliver power over the tie line at 22,000-volts, the purchase of the auto-transformer will be held off until next year.

## MUSKOKA SYSTEM

### HANNA CHUTE GENERATING STATION

Preliminary engineering in connection with the proposed development at Hanna Chute on the Muskoka river has been carried on.

### SOUTH FALLS GENERATING STATION

As mentioned in the 1923 Annual Report, considerable preliminary engineering work was done in connection with the extension to this station to provide additional power for the combined Georgian Bay system.

Authorization was given in March, 1924 to proceed with this extension.

As auxiliary power was required for construction purposes, a 400-kv-a. temporary station was erected at Bracebridge. Power was purchased from the Bracebridge municipality at 2,200-volts, two-phase and fed into the Huntsville line at 22,000-volts, three-phase.

When completed, this plant will comprise three generators representing a total capacity of 4,750-kv-a. One of the existing generators rated at 750-kv-a. will remain and two new units of 2,000-kv-a. capacity have been purchased. The original 450-kv-a. unit is being removed from service. Four 1,200-kv-a., single-phase transformers have been purchased to step up from 6,600-volts, generator voltage, to 22,000-volts delta or 38,000-volts star, these being alternative voltages for tie line operation to the Severn division. One of these transformers will be held as a spare unit.

The generators, which are rated at 2,000-kv-a., 80 per cent. power factor, 3-phase, 60-cycle, 6,600-volts, 514 r.p.m. and are of the horizontal type direct-



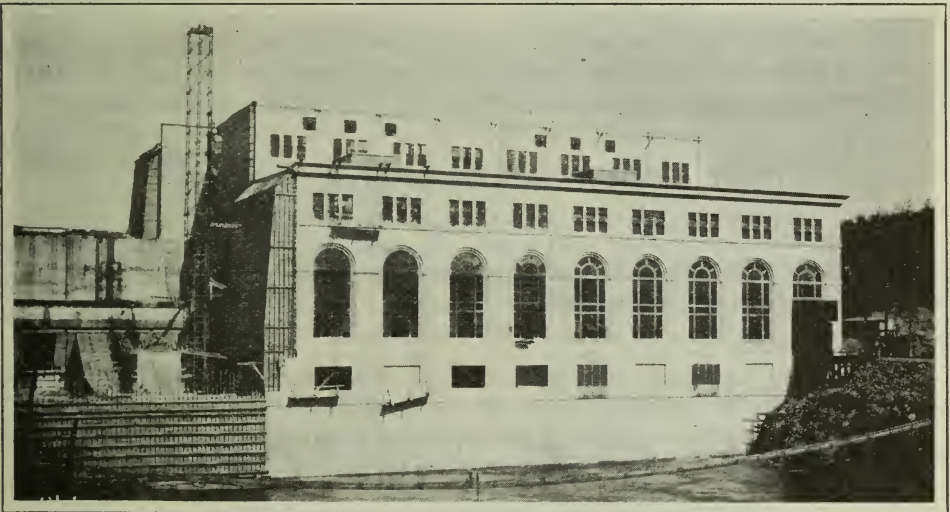
connected to a water turbine, have been ordered from the Bruce Peebles Company, Limited, Edinburgh, Scotland, and will be delivered in December, 1924. One unit should be ready for service in January and the second in March, 1925.

Four 1,200-kv-a., single-phase, 60-cycle, 6,600/22,000-volts oil-insulated, water-cooled transformers have been ordered from the Canadian General Electric Company and should be delivered and installed in November, 1924. The existing bank of three 400-kv-a. transformers will remain in service and will still be used to feed Huntsville at 22,000 volts.

### Gravenhurst Distributing Station

Authorization was given in September, 1924, covering the construction of an 800-kv-a., 38,000-volt star or 22,000-volt delta, pole-type distributing station at Gravenhurst, to be located at the rear of the lot on which the municipal station and offices are now situated.

Power will be supplied from a tap on the tie-line between South Falls generating station and Waubaushene switching station. Two 400-kv-a., single-phase transformers suitable for three-phase to two-phase operation are being purchased.



NIPIGON POWER DEVELOPMENT

Power house. Completed for four units and showing progress on extension for units No. 5 and No. 6

## THUNDER BAY SYSTEM

### NIPIGON GENERATING STATION

In the 1923 Annual Report, a description of the station extension and of the installation of No. 3 and No. 4 units was given. The building was completed and No. 3 unit placed in service on June 24, and unit No. 4 on September 30. The 110,000-volt equipment, including the new bank of three 8,000-kv-a. transformers, was also made alive on the latter date. The Commission did all the work except install the generators.

The club-house, besides providing boarding and rooming accommodation for the single operators, will incorporate the post-office and provide a reading

room, large living room and a billiard room in the way of recreation for the staff in general.

### **Nipigon Extension for Units No. 5 and No. 6**

A further extension to this station was found necessary in order to meet the rapidly increasing demand for power in this district, and in May the Commission authorized the installation of No. 5 and No. 6 generating units with No. 3 transformer bank and the switching-equipment necessary for the generators, transformers and No. 3 transmission lines. It is expected that No. 5 unit will be ready for service by August 1, 1925, and No. 6 unit by October 1, 1925.

#### **Building**

The extension to the building will be a duplicate of the extension for units No. 2 and No. 3. On July 12, a contract was placed for the structural steel and 90 per cent. of it has already been shipped.

#### **Electrical Apparatus**

The contract for the manufacture and installation of the two 10,600-kv-a. generators complete with direct-connected exciters and voltage regulators and duplicates of No. 3 and No. 4 machines, was awarded to the Canadian General Electric Company on April 28, 1924.

The contract for the manufacture of three 8,000-kv-a. transformers was also placed with the Canadian General Electric Company on June 17, 1924. These transformers will be duplicates of those now in service at this station.

## **PORT ARTHUR TRANSFORMER STATION**

In June, the Commission authorized the erection of a permanent outdoor station at Bare Point, Port Arthur, to replace the temporary station erected in 1920 and extended in 1923 and 1924.

#### **General Description**

An outdoor type station will be erected with electrical connections and disconnecting-switches supported on steel structures. The transformers will be located over concrete tunnels in which all oil and water piping and control cables will be placed.

#### **Capacity**

The first installation will be the two banks of three 5,000-kv-a. transformers and spare transformer from the temporary station, but in the design, provision is being made for a third and fourth bank and also for further future extension.

#### **Switching Equipment**

There will be two 110,000-volt incoming lines from Nipigon generating station and one outgoing line to the Great Lakes Paper Company with provision for additional incoming and outgoing lines. The necessary steel has been ordered.

The two transformer banks will be connected to a common 22,000-volt bus from which will be tapped off five outgoing feeders and one station service feeder. An emergency bus will also be provided and one emergency oil circuit-breaker.

Some of the equipment from the present station will be utilized and the remainder is being purchased.

**Station Service**

The 75-kv-a., 22,000/2,300-575-volt, 3-phase transformer now in the temporary station will be used to supply the station service, and provision will be made for the installation of a second transformer when required.

**Building**

The switchboard will consist of one instrument and one relay panel which will be located in a brick steel-frame building. This building will also house the pumps for water supply to the transformers, the oil tanks, oil filter, battery and charging set. An erection room with crane will be located at one end with a pit to give sufficient head-room to dismantle the 5,000-kv-a. transformers.

The erection of the station and the installation of all equipment will be carried out by the Commission. The concrete footings for the high-voltage switch structure are already poured and the station site is graded. The station should be completed and in service next year.

**PORT ARTHUR TEMPORARY TRANSFORMER STATION**

The installation of the second bank of three 5,000-kv-a transformers, described in the 1923 Annual Report, was completed on April 20, when the transformers were placed in service.

In February, two type "GA3" outdoor 22,000-volt oil circuit-breakers, and two 22,000-volt type "OF" lightning-arresters were purchased for two 22,000-volt feeders to connect up with the second bank. The equipment was placed in service in June.

**Port Arthur Municipal Station (High Street)**

In January an agreement was completed whereby the Public Utilities Commission of Port Arthur purchased the Commission's substation on High street, complete with all 22,000-volt and 2,200-volt switching equipment and transformers.

**CENTRAL ONTARIO AND TRENT SYSTEM****DAM No. 8 GENERATING STATION**

During the year, building plans and specifications were completed, including the water, air and oil systems. An air compressor, lubricating oil filter, transformer-oil tank and transformer truck were purchased, and all construction work practically completed. The superstructure, which measures 112 feet long, 34½ feet wide and 40 feet high, includes the generator room with gallery floor and a basement at the east end and is constructed of a steel frame and reinforced concrete floor and roof slabs, and the walls are of broken coursed squared stone masonry with concrete coping. Two monitors are located on the top for ventilating purposes. A 20-ton electrically-operated crane was erected in the generator-room.

It was decided to equip this station, together with Dam No. 9 generating station, which is described elsewhere in this Report, with automatic control, and have the supervisory remote control at Ranney Falls generating station.



All erection work and installation of equipment was done by the Commission except the installation of the generators, which were installed by the Swedish General Electric Company. The Canadian Westinghouse Company supervised the installation of the automatic switching and control-equipment.

The first unit was placed in service under automatic control on September 11, the second on September 16, and the third unit on October 3, 1924. The remote supervisory control should be ready for service about the end of the year.

A general outline of the station proper was given in the 1923 Annual Report, but as this is the first automatic station that the Commission has built, a detailed outline of this particular feature may be of interest.

The equipment for the remote supervisory control for both this station, and the one at Dam No. 9 will be located in Ranney Falls generating station. A 20-pair, paper-insulated, lead-covered standard telephone cable will be carried on a separate pole-line from Ranney Falls generating station, one and a half miles down the river to a junction box adjacent to Dam No. 9 generating station, where a 10-pair cable is tapped in and another 10-pair cable continues one and a half miles farther on to Dam No. 8 generating station.

The supervisory control is very similar to the automatic telephone equipment. It will be possible for the operator at Ranney Falls generating station, by pressing ordinary telephone switch keys, to perform any of the following operations at either Dam No. 8 or Dam No. 9.

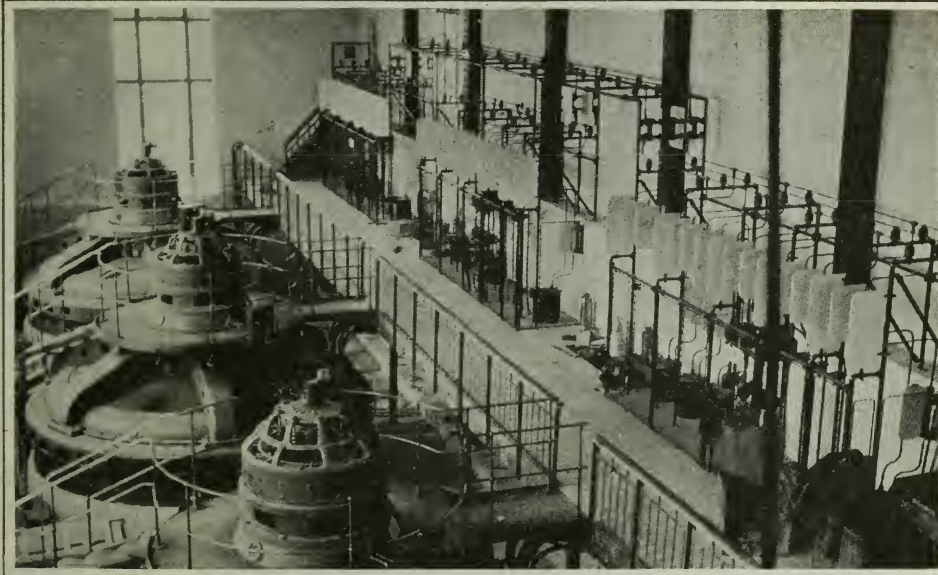
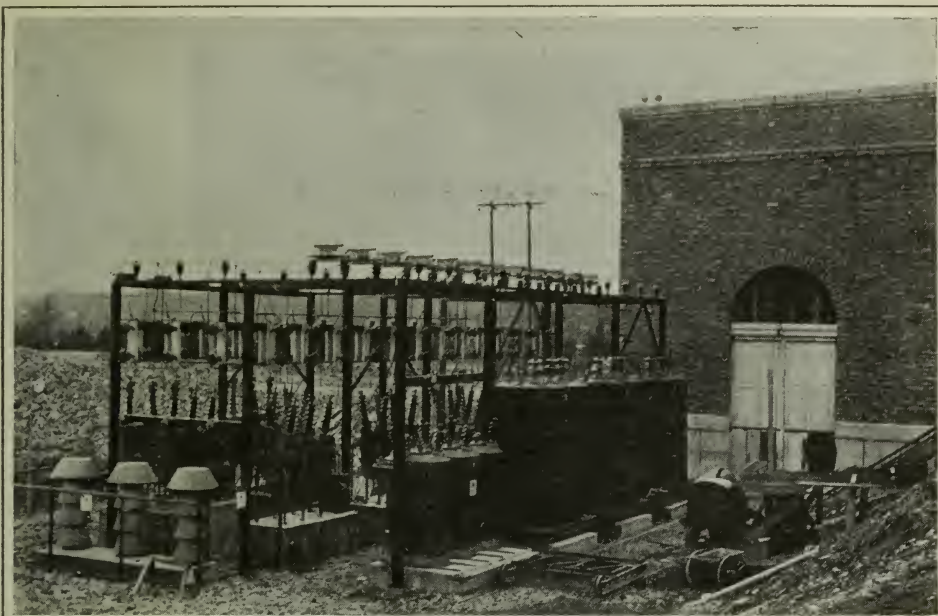
- (1) Start and stop any unit.
- (2) Increase or lower the load on any unit.
- (3) Raise or lower the power factor of either station.
- (4) Place either one or both stations on full automatic control from a water-level float, actuated by the change in water level in the forebay.

Metering equipment will be installed at Ranney Falls generating station to indicate the kilowatts and integrate the watt-hour load output of each controlled station. Separate meters will indicate the reactive volt-amperes carried and graphic instruments will record variations in the water-level in the forebay of each of these remote stations, and rows of ten lights will indicate the gate opening of each unit.

The supervisory equipment will be so connected that in event of any automatic functioning at either of the controlled stations, the operator at Ranney Falls generating station will be warned by a klaxon, and should he be at the control-board at the time, he could watch the signal lamps and actually note what operation is being performed. Provision will be made whereby the operator can check the position of all the equipment at either of the remote stations, by pressing a special telephone key. This will start a sequence of signals, which will check the location of all breakers, the signal lamps at Ranney Falls either remaining as they were, or changing, depending upon whether or not some operation had occurred and not been signalled through previously. A klaxon horn located at the remote stations will also be energized for a short period to call the station attendant when certain automatic operations occur.

Any generator under normal control may be started and placed on the line and be carrying its full load in less than one minute from the time the starting key is operated. Most of this time will be necessary to accelerate the machine.

Every generator on starting will be brought up to approximately 95 per cent full speed, and the circuit-breaker will then be automatically closed, connecting the generator to the line without field excitation. Another relay immediately functions closing the field switch and the generator pulls into step and is



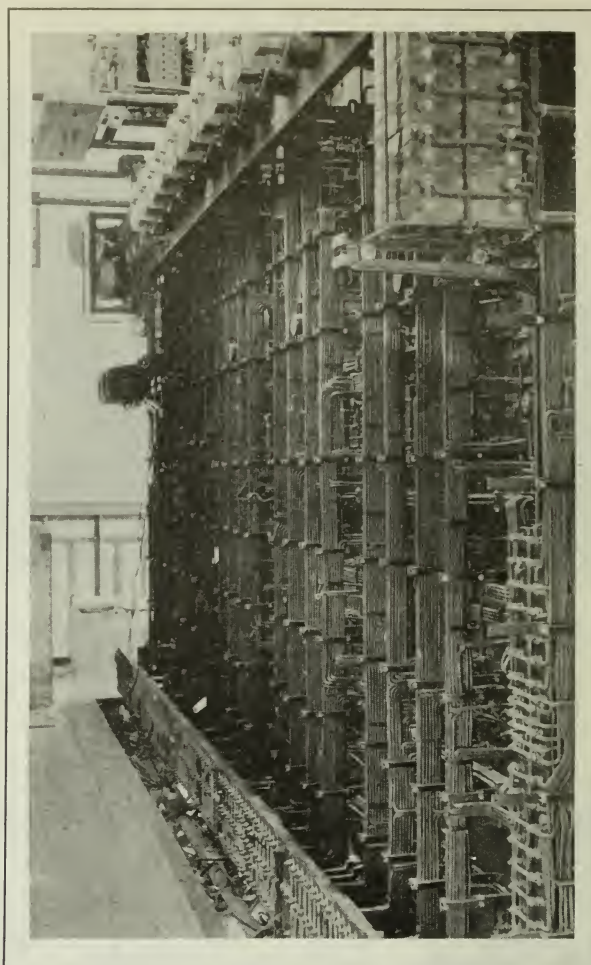
**DAM NO. 8 POWER DEVELOPMENT—TRENT RIVER**

- a. Generating station. Transformers and high-voltage switches
- b. Generating station. Interior view

at once under governor control. The generators at this station have solid field poles which permit this manner of placing the machines on the line, as it gives them the necessary high pull-in torque.

Under normal operating conditions, the generator will be shut down by de-energizing the automatic control, which will start the governor to close. At the no-load gate opening, a contact is made which trips out the line circuit-breaker, disconnecting the generator from the system. In event of trouble, the unit will be promptly cleared from the line by relays provided for that purpose.





DAM NO. 8 POWER DEVELOPMENT—TRENT RIVER  
Generating station. Automatic control board. Rear view

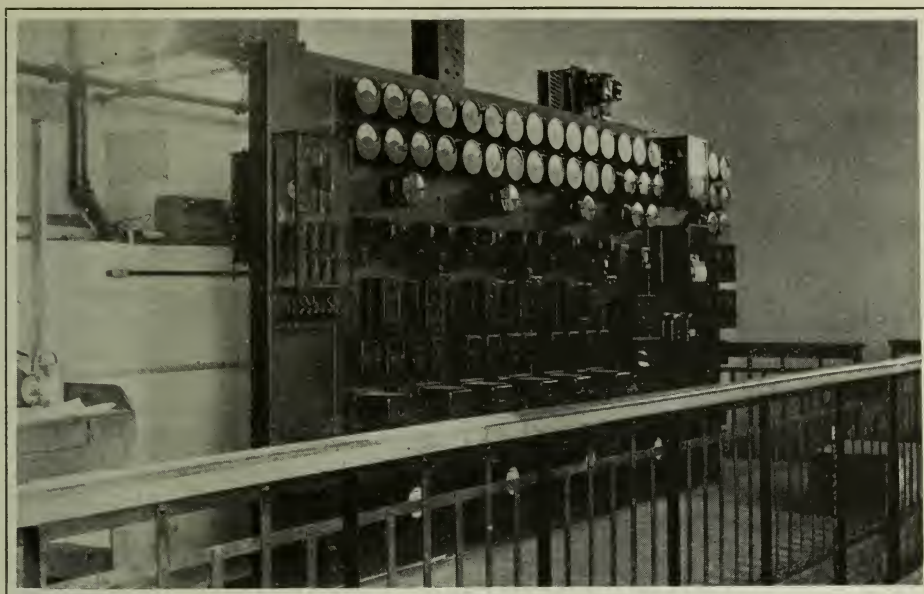
Brakes on the generators will be applied automatically by a mechanical attachment on the governor, the oil-pressure from the governor being used for their operation.

The lubrication of each generator is self-contained. The thrust bearings are water-cooled, and the cooling water is siphoned through from the turbine supply pipes.

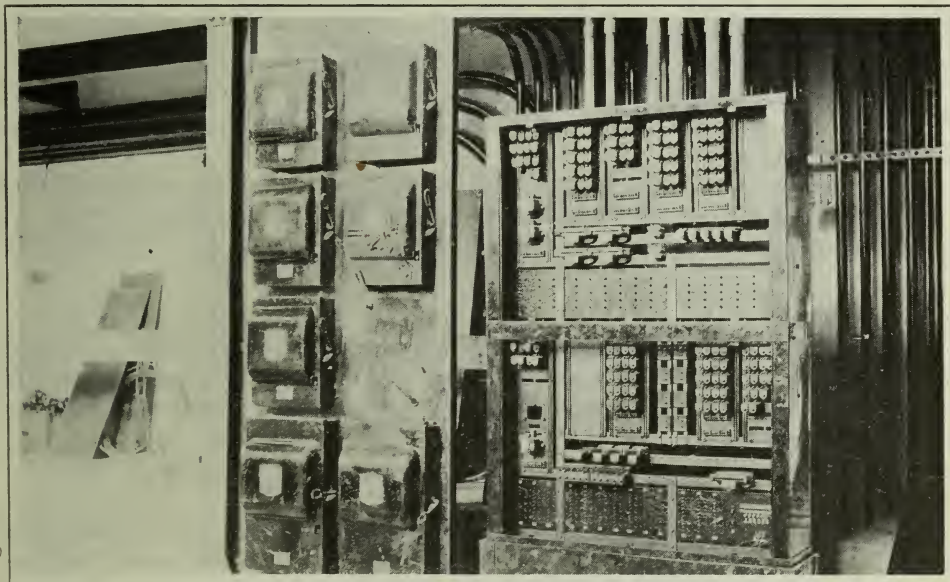
The automatic control equipment, together with the meters, are mounted on slate panels and push buttons are provided so that an operator may perform the same operations and have the same control of the equipment as at Ranney Falls. One voltage regulator will control the station voltage and special interlocking devices are provided whereby it can be connected to only one generator at any one time.

A 48-volt battery has been installed for operating the automatic equipment and the two 44,000-volt oil circuit-breakers. It will be charged automatically from any one of the exciters through a special control equipment.





DAM NO. 8 POWER DEVELOPMENT—TRENT RIVER  
Generating station. Automatic control board



DAM NO. 8 POWER DEVELOPMENT—TRENT RIVER  
Generating station. Supervisory control cabinet

A 48-volt tap will be provided on the existing battery at Ranney Falls generating station to give the required voltage for energizing the supervisory control equipment.

### DAM No. 9 GENERATING STATION

As mentioned in the 1923 Annual Report, work on the development at Dam No. 9 is under way. This station will be quite similar in layout to the one

at Dam No. 8 and will be automatic with the supervisory control at Ranney Falls generating station. The generators and low-voltage switching-equipment will be installed in the building while the transformers and all the high-voltage switching-equipment will be located outside.

Plans and specifications for the building and structures, including water, air and drainage systems, have been completed. The building itself, 94 feet long, 33 feet wide and 34 feet high, is of structural steel frame. As the local stone was not suitable, the walls are being built of reinforced concrete. The roof is being covered with tar, felt and gravel with copper flashings and two monitors will be located on top for ventilation. A 15-ton electrically-operated crane was purchased and will be installed in the generator room. An air compressor, lubricating-oil filter and transformer-oil tank have been purchased.

A service section 18 feet 7 inches square by 20 feet high of similar construction to the main building will be located at the south end. All the service equipment, lavatory and battery rooms will be located in this section.

A reinforced concrete platform will be built up for the transformers and other outdoor equipment.

The 1,400-kv-a., 6,600-volt, vertical-type generators with direct connected exciters were purchased from the Canadian Westinghouse Company and will be installed by them.

Three step-up 1,350-kv-a., 3-phase, 6,600/44,000-volt, self-cooled transformers were purchased from the Moloney Electric Company together with three 100-kv-a., single-phase, 44,000/2,300-575-volt service transformers.

The automatic switching-equipment and the supervisory remote control equipment is being supplied and installation supervised by the Canadian Westinghouse Company, and will be practically a duplicate of the equipment at Dam No. 8 generating station.

The Commission is erecting the building and doing all electrical installation work except the generators. The station should be in service early in 1925. A description of the automatic feature is given under Dam No. 8 generating station.

#### **Operator's House**

During the year, plans and specifications for a six-room house, including septic tank and drain pit, were prepared and the contract for the erection was let to Mr. James Mitchell, Campbellford, in September. A well was sunk for the supply of water.

### **Dam No. 9 Construction Station**

In order to supply power for the construction of Dam No. 9 generating station, a pole-type station was erected near the site. A 300-kv-a., 3-phase, 60-cycle, 44,000/2,400-volt, indoor-type transformer obtained from Cobourg distributing station was installed in a temporary house and the necessary switching-equipment mounted on the structure. This station was completed and placed in service on December 5, 1923.

### **RANNEY FALLS GENERATING STATION**

Two generator-voltage regulators with overvoltage protective equipment are being purchased for installation in this station.

Equipment has been purchased for the control of a 44,000-volt line which

passes through this station from Heely Falls generating station to Sidney transformer station. This equipment will not be installed until after January 1, 1925, but in the meantime temporary connections have been made whereby the switching-equipment, which will eventually control the line to Dam No. 9 generating station, is being utilized.

The two "GA3" oil switches have been equipped with new concentric-cylinder type muffled vents.

Operation-indicators have been installed on nineteen overload, two over-voltage, and six unidirectional-type relays.

### **Nassau Feeder in Canadian General Electric Company's Generating Station**

In order to permit the interchange of power between the Canadian General Electric Company's generating station at Nassau near Peterborough and the Central Ontario system, the installed equipment of a 6,600-volt feeder in this station was purchased in February from the Canadian General Electric Company. This feeder connects to a 6,600-volt line between Auburn generating station and Lakefield distributing station.

### **Oshawa Distributing Station**

The Commission, on June 11, 1924, authorized the purchase and installation of a 3,000-kv-a. transformer to replace one of the 750-kv-a. units and the rearrangement of the low-voltage equipment. The drawings are being prepared and a 3,000-kv-a., 3-phase, 44,000/2,400-volt water-cooled transformer was purchased. Installation work will commence early in 1925.

## **NIPISSING SYSTEM**

### **BINGHAM CHUTE GENERATING STATION**

The development at Bingham Chute is now complete. The first unit was placed in service on December 2, 1923, while the second unit was placed in service on March 31, 1924.

The installation of the Powassan feeder in the Bingham Chute station was completed on February 1, 1924.

The new operator's house has been completed and both houses are now occupied.

### **Callander Distributing Station**

Authorization was given in February, 1924, for the removal of the 50-kv-a. and 25-kv-a. transformers from service, and the installation of three 50-kv-a. transformers and protective equipment from Powassan distributing station. The work was completed and placed in service on October 19, 1924.

## **TABLE OF TRANSFORMING STATION DETAILS**

In Appendix II are given in tabular form data respecting all transforming stations owned or operated by the Hydro-Electric Power Commission of Ontario on October 31, 1924.



## SECTION VI

### TRANSMISSION SYSTEMS

#### NIAGARA SYSTEM

The heavy steel-tower lines which were under construction in 1923 were completed and placed in service during the early part of the year, thus completing the necessary additional circuits from the new generators at Queenston.

A 110,000-volt wood-pole line is under construction between Oil City and Sarnia. This line forms part of the St. Thomas-Sarnia line and will operate temporarily at 26,400 volts.

On the right-of-way in the Niagara peninsula, fencing operations have been carried on throughout the year.

By the construction of nine miles of 26,400-volt line between the town of Essex and Puce Junction a complete loop has been made for the supplying of power to the stations on the Essex County system. This line connects at Puce Junction with the line supplying Belle River and the portion between the junction and Essex high-tension station has been re-strung with conductor capable of carrying the new loads. Additional air-break switches have also been installed on this system so that each municipality may be fed from two directions.

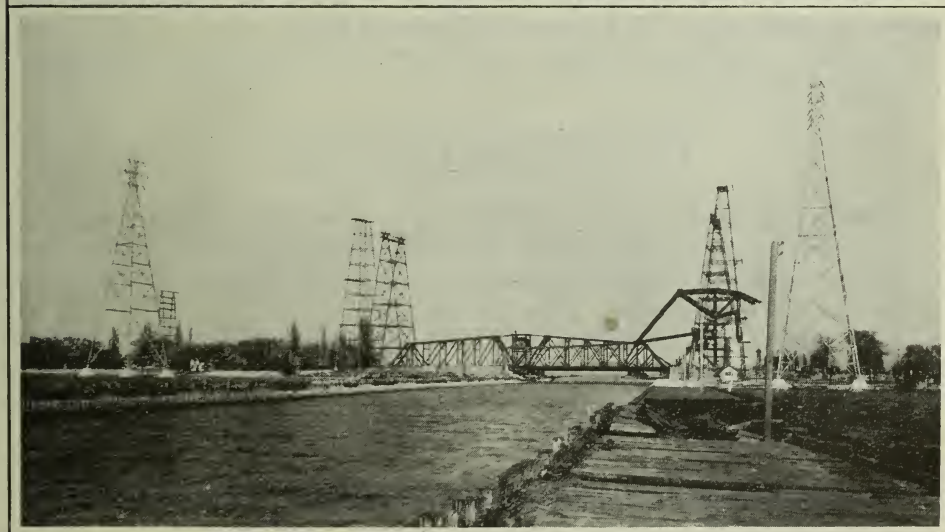
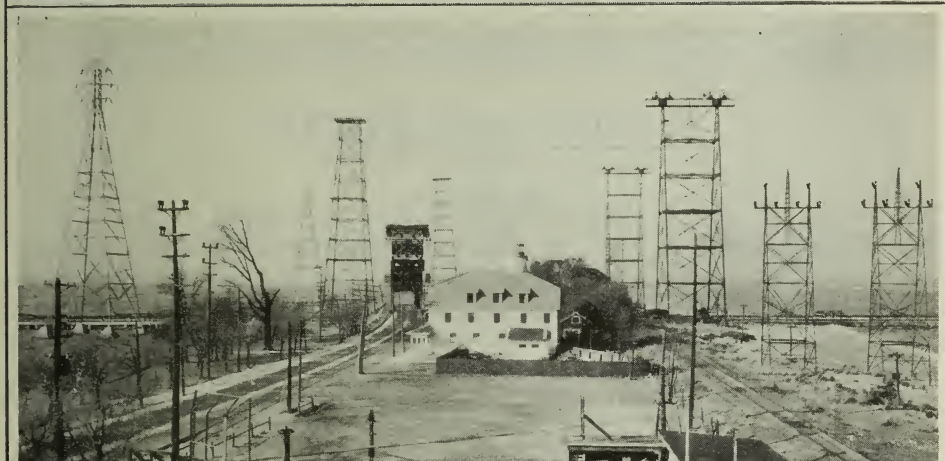
In the Essex peninsula, a line has been constructed to a new substation in the town of Sandwich and a new line to the Walkerville station.

A 26,400-volt line was also extended north from Seaforth to a station at Walton.

Extensions were made to the 13,200-volt system to supply power to stations at Decewsville, Broughdale, Mimico and Waterdown.

A 12,000-volt line has been constructed to a new station near St. Davids and the line from St. Davids to Niagara-on-the-Lake has been extensively overhauled.

In the Toronto district two circuits of 190,000 c.m. copper have been erected on Yonge street to York Mills and alternative methods of supplying power to the Leaside district were provided by the construction of a short line between the Canada Wire and Cable Company and the Canadian National Railways shops at Leaside.



TRANSMISSION LINES, NIAGARA SYSTEM—BURLINGTON BEACH

- a. General view of power lines looking south from bridge
- b. Hydro, Dominion Power and Toronto Power transmission lines showing towers at canal crossing
- c. Looking east along the canal showing canal-crossing towers



TRANSMISSION LINES, NIAGARA SYSTEM—BURLINGTON BEACH  
Hydro, Dominion Power and Toronto Power transmission lines looking north from bridge

## GEORGIAN BAY SYSTEM\*

combining

### SEVERN, EUGENIA AND WASDELLS SYSTEMS

A 38,000-volt line has been completed from Waubaushene to South Falls providing for the interchange of power between these two points. The town of Gravenhurst will be tapped on this line and when this latter station is in service, use of the 6,600-volt line between South Falls and Gravenhurst will be discontinued.

Early in the year the 22,000-volt line to Meaford was placed in service. This line is connected to the Eugenia-Collingwood line.

Telephone conductors between Mt. Forest and Durham on the Eugenia division were replaced.

## THUNDER BAY SYSTEM

Considerable work was done during the year on this system. A double-circuit 110,000-volt steel-tower line, with one circuit up at the present time, was erected between Nipigon generating station and Reserve Junction and between Sprucewood and Bare Point, a total distance of 62.1 miles. To serve the Great Lakes Paper Company at 110,000-volts, 14.2 miles of line were built, part steel-tower construction and part wood-pole. To serve the Nipigon Fibre Company at Nipigon village, a 3-mile, 110,000-volt, twin-pole line was built from Reserve Junction. All of the above lines are now in service.

## CENTRAL ONTARIO AND TRENT SYSTEM

The construction of generating stations at Dam No. 8 and Dam No. 9 on the Trent river necessitated the building of 44,000-volt lines in this district. A new 44,000-volt line was constructed from Dam No. 10 to Dam No. 9 and

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\*Consult also page 21.



continued to Dam No. 8. Connections were also completed from the Heely Falls-Trenton line to Dam No. 8 and the portion of the former line from this junction to Trenton has been re-built and a second power circuit erected. This second circuit is connected directly to the station at Dam No. 8. From Ranney Falls, a new line was also constructed to intersect the lines supplying the Campbellford Pulp Mill and this latter line from the junction to the pulp mill tap was re-strung with heavy conductor so that the power generated at Dam No. 8, Dam No. 9 and Dam No. 10 may be transmitted over line "G" to Belleville, or over line "R" to Sidney terminal station at Trenton.

A pole line carrying a 20-pair cable was built from the generating station at Dam No. 10 to Dam No. 9 and a 10-pair cable extended to the station at Dam No. 8. This cable will be used for controlling, from the station at Ranney Falls, the new generating stations known as Dam No. 8 and Dam No. 9.

The 44,000-volt line from Auburn generating station to the new station on Dalhousie street, Peterboro, was completed and placed in operation.

### NIPISSING SYSTEM

The 22,000-volt line was completed and placed in service this year, making connections from the new generating station at Bingham Chute to intersect the existing line near Powassan. New air-break switches have also been erected at junction Z-52 which is the intersection of the lines from Nipissing generating station and Bingham Chute.

## · SECTION VII

### THE LABORATORIES

The functions of the Laboratories department, as described in previous reports, are testing, research and inspection of materials and equipment.

The staff and equipment are at the service of the municipalities in connection with all problems coming within the scope of these functions.

This year has seen a marked increase in volume in the work of several sections of the Laboratories; the total volume of work has also shown an increase.

The volume of commercial testing has shown a satisfactory growth, particularly in the Meter and Standards laboratory.

The department has continued in its co-operation with the technical committees of the engineering and standardization bodies upon which it is represented.

An extensive programme of research in concrete was begun during the year and very gratifying progress has been made.

In August the department had the honour of entertaining a number of distinguished scientists and engineers who were in attendance at the meetings of the British Association for the Advancement of Science and the International Mathematical Congress.

Among the items of equipment added special mention is made of an Amsler calibration box of 100,000 pounds capacity. This is available to laboratories desiring a calibration of their tension and compression testing machines.

#### High Tension and General Electrical Testing Laboratory

##### Routine Testing

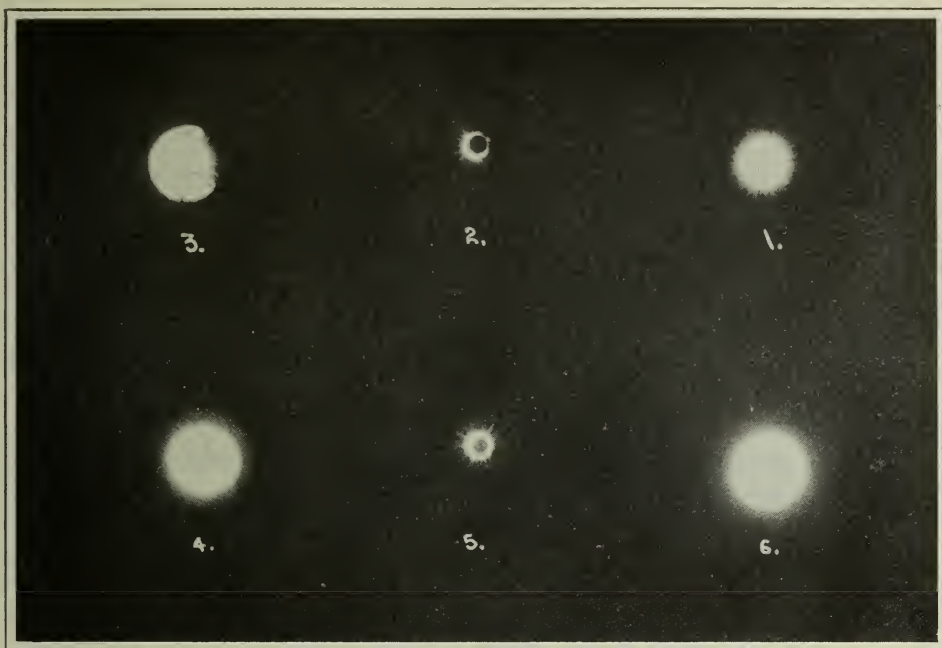
The routine work of this laboratory has followed along the lines indicated in previous reports. This includes the regular testing of transformer oils, rubber gloves for linemen's use and such pieces of equipment as are transferred or repaired, insulators, and other materials used in electrical construction, motors, generators, etc.

##### Equipment

The equipment available is fairly complete for the range of work usually done in the laboratory and additions made are usually of minor magnitude and in most cases of a very special character as dictated by some investigation in progress.

The insulator-testing device noted in the preceding report has been developed to the point of being an assured success and there has been incorporated therein a principle of operation not hitherto found in any testing equipment used for the purpose. It has been given a field test with satisfactory results.

A portable high-voltage direct-current testing set has been assembled for



#### HIGH-TENSION LABORATORY

Klydonograph records of surges due to switching. The diameter of the spot is a measure of the voltage. Nos. 2 and 5 represent normal voltage

testing insulation and measuring insulation resistance where the electrostatic capacity of the apparatus is high. For field use this set is almost ideal.

#### Special Problems

During the year there was occasion to make use of klydonograph records in the detection of over-voltage surges on power lines. The availability of such records increases to some appreciable degree the confidence of the engineers in their over-voltage factors of safety and very practical use of them has been made in investigations of abnormal conditions.

A rather extensive study has been made of transient-voltage phenomena in circuits with the aid of oscillograph and klydonograph records. Certain limiting features of operation have been discovered which it seems advisable to avoid. The effect on the voltage waves of arcing-grounds and of imperfect operation of switches has been studied.

Further attention has been given to developing methods of locating faults in underground or other concealed conductors under various conditions of operation. Such developments require the closest co-operation of all departments interested to assure success. An experimental study has also been made of a new method of generating alternating current of suitable wave form for special test work. Occasionally it is found that methods may be used to advantage which are far from being orthodox according to generally accepted notions.

#### Commercial Tests

The facilities of the laboratory have frequently been made use of by manufacturers and individuals confronted by special problems requiring tests or investigation.



## Approval Laboratory

A considerable increase in the volume of work handled by this section over that of the previous year may be noted.

Applications for approval report to the number of 225 were filed, of which approximately one-half were received from new submitters or were for new lines introduced by submitters already carrying approval service. One hundred and seventy reports were completed and 208 white card summaries of these reports were issued. Applications for listing devices approved by the Underwriters' Laboratories also increased and green cards to the number of 139 covering these devices were added to the approval record. The approval record now consists of 1,125 cards of which 520 are card summaries of reports issued by the Commission.

### Devices Submitted

As in other years heating appliances form the largest group of devices submitted, wiring devices being the next largest, with motor-operated devices very closely behind in point of number. There has been sustained activity in the production of electric hair-dressing devices, with an improvement in the quality of the articles as a result of reports made by the Laboratories on samples submitted.

### Radio Equipment

The ever-increasing sale of radio equipment is reflected in the number of rectifiers for charging small storage batteries, soldering tools of a light type and lightning arresters for the protection of receiving sets which were submitted for approval. Most of these devices have been submitted by manufacturers in the United States.

### Portable Lighting Devices

In August a specification, No. 17-2, was circulated to dealers and manufacturers in portable lamps together with a notice requiring all manufacturers to submit samples for approval. At the close of the year these samples were just beginning to arrive so a more detailed report in this regard will be made at a later date.

### Approval Manual

The amendment to the Power Commission Act, Chap. 23, Section 17, 1924, made it advisable and necessary to rewrite the Rules respecting approval of electrical equipment and to issue such new regulations as were provided for by the new act. This was done and the approval of the Lieutenant-Governor-in-Council obtained on July 2, 1924, for Rules and Regulations respecting Inspection, Test and Approval of electrical equipment. These rules, together with the Act and the revised Outline of Procedure and Schedules of Charges, were therefore printed in a new pamphlet entitled "Approval Manual, July, 1924" and have since been distributed to supersede the previous "Manual" dated August 22, 1923. The new rules provide for the punishment of persons disposing of, or using, electrical equipment which has not been approved or if approved, is being used or may be used in a hazardous manner. With this authority it is hoped that a more rigid check will be possible on unapproved articles which have in the past been imported and sold directly to the retailer or to the consumer.

**Follow-up Service.**

The natural growth of the re-examination service following upon the increased number of devices reported and approved by the laboratory has made it necessary to supplement the work of the Laboratory Inspector with part time of another man. It is now necessary to visit annually some forty towns or cities in the United States in addition to the follow-up service now given in Ontario and Quebec.

**Meter and Standards Laboratory**

While the Meter and Standards laboratory has enjoyed one of the busiest years since its organization, it cannot be said that there have been any radical changes in the nature of its activities or that the general matter to be reported has materially altered from that of past years. The work has been well balanced among the various types to be found in a laboratory of this nature; and all phases of metering,—commercial and technical,—have received their due share of attention. Some of the more interesting aspects of this work are noted in the following paragraphs.

**Standard and Portable Instruments**

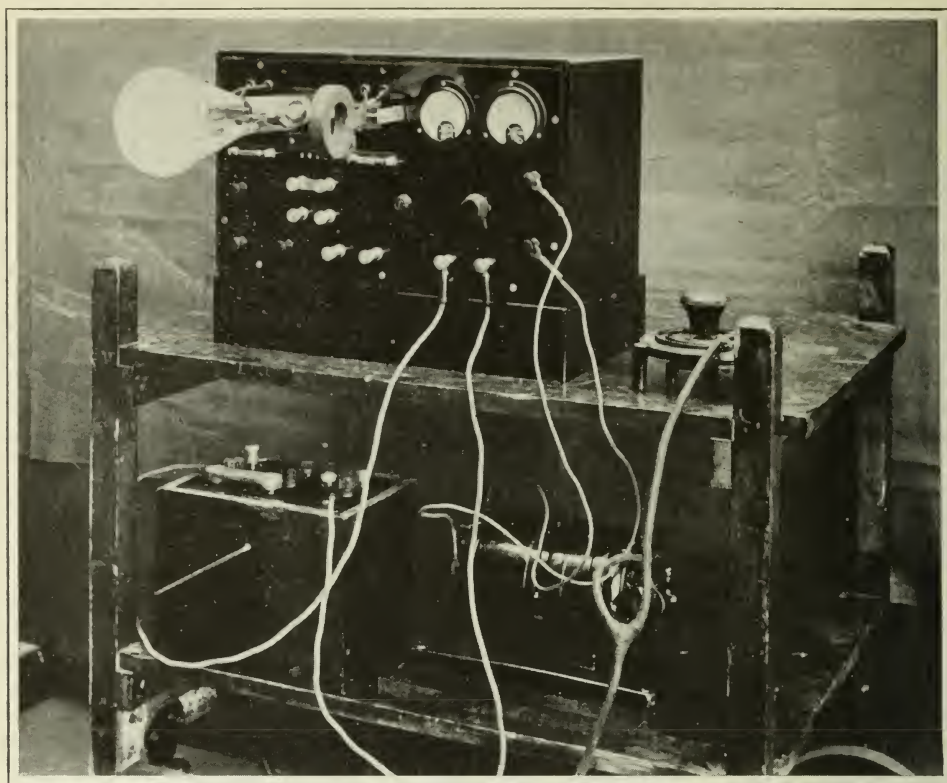
With the ever-increasing magnitude of the Commission's power loads and the corresponding need of extreme precision in the regular measurement of these loads, it has been found necessary to maintain the closest co-operation between the Standards laboratory and those departments having such measurements in hand. By a continual comparison and interchecking of portable instruments with the laboratory standards, and the periodic reference of the latter to the primary standards, practically all sources of controversy have been removed, and a satisfactory agreement maintained among all meters, from the great multiple-element totalizers in the generating stations to the service meters on the most insignificant loads.

**Commercial Tests**

Hydro municipalities and electrical manufacturers have continued to show their appreciation of having available a laboratory wherein both minor repairs and calibrations of instruments could be performed. While this laboratory does not in any sense attempt to usurp the prerogative of the Dominion Government Laboratories, which constitute the only legal authority of accuracy on all matters appertaining to measurement, the presence of a readily accessible and well-equipped instrument laboratory has proved a great convenience to the users of metering equipment, particularly in Toronto and the district immediately adjacent, and many portable instruments have been adjusted and calibrated for customers outside the Commission's immediate organization, for use in their general testing work. Besides the general run of portable instruments, a considerable number of switchboard instruments from local power plants have been examined, overhauled and adjusted, both in the Laboratories and in their permanent locations.

**Oscillographic Studies**

The volume and variety of tests wherein oscillographic observations have been made is greater than in any previous year. Of course, most of the work upon which the oscillograph is applied is composed of tests under the immediate direction of some other department; so that, from the standpoint of the Meter and Standards laboratory, it can only be referred to as the performance of a



METER AND STANDARDS LABORATORY  
Cathode ray oscillograph, used for electrical investigation of many kinds

desired measurement, the data from which are turned over to the engineers particularly interested in those particular tests. In a series of investigations carried out by the High Tension and General Testing laboratory, with a view to determining the causes of breakdown in underground cables supplying rural communities, the oscillograph found a wide application, both within the Laboratories on "artificial" circuits, and in the field under actual operating conditions. A study conducted by the same laboratory on the burning of generator stator coils, was well rounded out by records obtained from this instrument; and a large number of records was also made to demonstrate the performance of types of transformer primary cutouts under development.

Short-circuit tests have been performed upon large power-house generators as these went into service; and as the records from these tests accumulate from year to year, there becomes available a constantly increasing mass of engineering information of great value. Among the minor oscillographic studies carried out in the laboratories may be mentioned an examination of the wave forms of three 500-cycle generators, to determine which would be the most suitable for certain tests on telephone conductors, tests upon a commutating interrupter for cable tests, and an investigation of the performance of an electrically maintained tuning fork used in accurate measurement of time.

A cathode-ray oscillograph tube has been acquired for use in special tests where the available energy of the investigated quantity is very small or the



frequency is above the range of the ordinary oscillograph; and this has been provided with a permanent mounting in a portable form, so that it may readily be carried to any part of the system where investigations are in progress.

#### **New Developments**

The laboratory is at present engaged upon the development of a number of new methods of measurement, which should prove of considerable value in electrical work. One of these is a method of measuring and permanently recording the speeds of machines under test, with particular reference to large generators and turbines during deceleration and in investigations of governor performance. Another is a system of totalizing a number of individual blocks of power measured at separated points, and obtaining a record upon one centrally located metering instrument. A very simple and effective timing device has been constructed for puncturing by means of an electric spark the paper chart of a graphic meter at predetermined intervals, so that accurate time determination is available on high speed records, such as those obtained in measurement of water flow by the salt-water-velocity method.

#### **Watthour Meters, etc.**

The work of overhauling, testing and adjusting watt-hour meters has continued of a very steady volume throughout the year; and while there is nothing radically new to report in this branch of the laboratory's work, its nature has been such as to materially improve the load factor of the department and provide a reasonable source of revenue. The expansion of the system of direct distribution of power in small units to rural consumers has resulted in a considerable increase in the number of watthour meters passing through the laboratories, particularly for sealing by the Government inspectors.

Several new types of watthour meters have been submitted for acceptance tests; but, with the exception, perhaps, of a very effective temperature compensation upon one make, it cannot be said that any new principles or radical improvements have made their appearance. The tendency is, as previously reported, toward lessened costs of production and toward increased overload capacity, with a general leaning to compactness and lightening in weight of all parts. European meters appear to be gradually approaching the standard practices of the Canadian and American types.

A new ampere demand meter operating upon the thermal principle has been examined and tested; and as it is applicable to three-wire services and comparatively low in cost, it should find a considerable field of application in the metering of residential and commercial services. A number of improvements in graphic meters and protective relays have been investigated and reported upon.

#### **Instrument Shop**

Except in magnitude, it cannot be said that the work of the Instrument Shop shows any great change from that mentioned in earlier reports. While the volume of work has increased, little or no addition to the shop equipment has been found necessary. This department has functioned actively in practically all the development work of the laboratories and has turned out a product quite in keeping with the highest standards of experimental engineering. In addition the normal amount of maintenance on laboratory equipment has been performed, and a large number and variety of test specimens for the Structural Materials laboratory prepared.

## Photometric Laboratory

### Inspection of "Hydro" Lamps

The work of the Photometric section of the laboratories is principally that of maintaining the quality of Hydro lamps at the required standard. This is accomplished by means of regular inspection and tests by a resident inspector at the factory, supplemented by life tests of representative samples of lamps at the laboratory. Because of this, the work is largely a continuation of work already described in previous reports, except for special tests required from time to time.

### Life Testing

The number of life test samples forwarded to the laboratory has taxed the capacity of the life test apparatus which has been operated at full load continuously throughout the year.

### Vibration Tests on Lamps

In addition to the regular tests of lamps, a series of tests was conducted to determine the relative merits of ordinary and mill-type lamps under severe vibration. For this purpose a machine was constructed that subjected the lamps to rapid vibration similar to that of railway service only very much more severe. The lamps subjected to the tests were burned for 200-hour periods on the life-test racks after which they were given the vibration tests. The number of lamps failing under vibration after each burning period gave an indication of the ruggedness of construction. This test established conclusively that the mill-type lamps are far superior to the ordinary type, of corresponding size, in their ability to withstand vibration.

Vibrations were also applied to coach-lighting lamps for one of our trans-continental railway systems.

### Commercial Tests

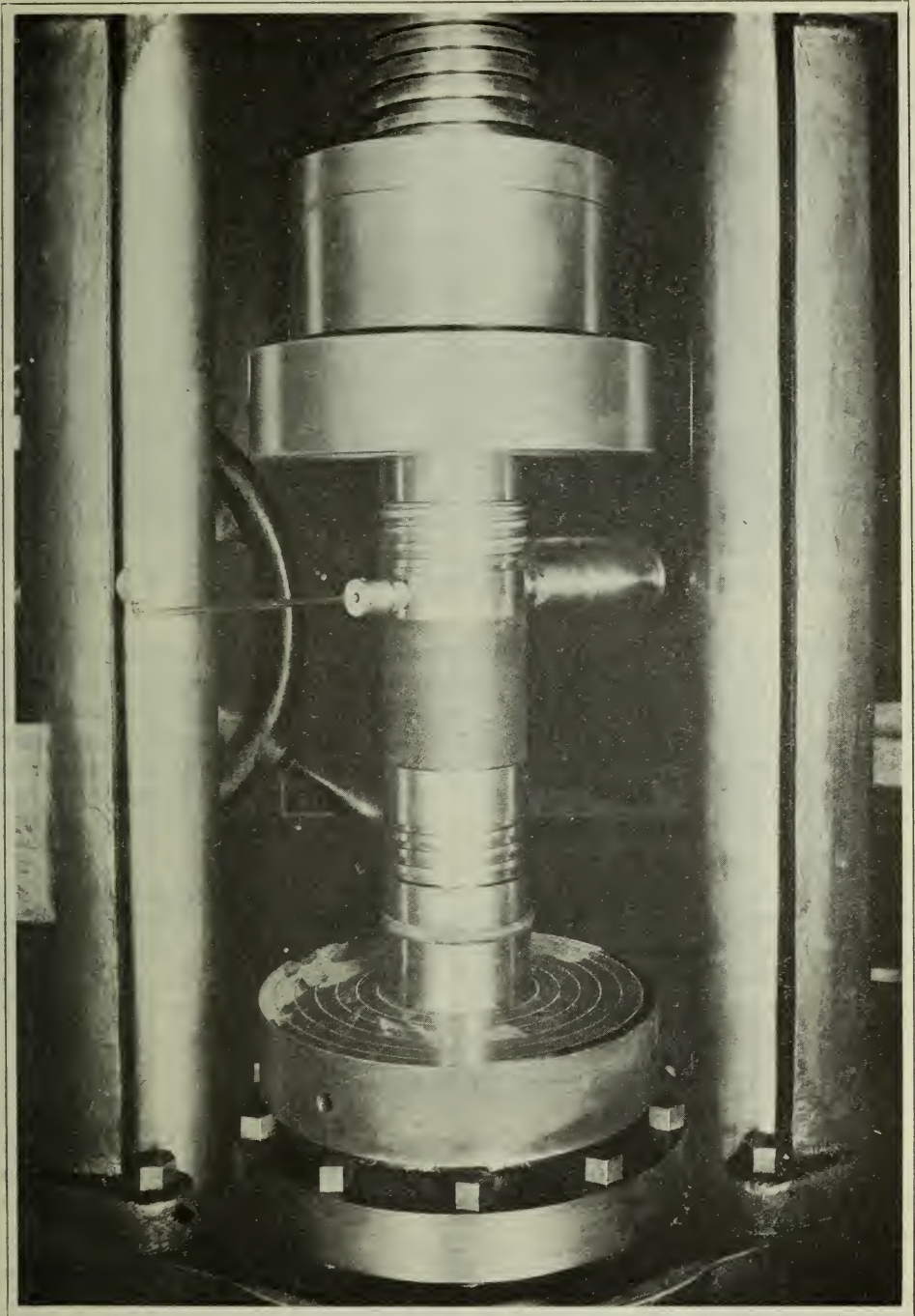
Some manufacturers of lighting equipment have availed themselves of the facilities of the laboratory to determine the efficiencies of new designs and types of equipment. These include both interior and street-lighting units.

### Headlight Tests

This laboratory rendered assistance to the railway department of the Commission in the testing of headlights for radial railways. An extended series of tests was made to determine the beam characteristics of several sizes and types of reflectors, and lamps. The object was to obtain the best light for the operation of the car with a minimum of glare to endanger motorists driving on adjacent highways. Some tests of automobile headlight devices were made for the Ontario Department of Public Highways and other parties.

### Equipment

During the year a portable photometer was added to the equipment of the department. This instrument, which is of a late type, has proved valuable for making surveys of lighting installations.



ENGINEERING MATERIALS LABORATORY  
Amsler calibration box mounted in testing machine. See text



## Engineering Materials Laboratory

### Routine Testing and Inspection

This section has had a very active year in all branches of its work. The busy construction season just past has resulted in a large volume of routine testing and inspection of different engineering material and structures. In addition to this the decision to proceed with further research on concrete has increased the amount of testing to be done.

### Research

The research work on concrete forms part of a five-year programme covering questions of direct economic importance to the Commission which are not being studied by the regular research agencies. For the year just past attention has been confined almost entirely to questions of the permanence of concrete when exposed to the severe conditions common to hydro-electric power plant structures. Concrete is without question the most convenient and economical structural material for this class of construction, but in common with all materials it is subject to deterioration, more or less rapid, depending on its quality and the exposure to which it is subjected. The Commission has an increasing investment in concrete structures, and it was felt, therefore, that a thorough understanding of the processes of disintegration would be of great importance both in the construction of concrete highly resistant to disintegration and also in correcting those troubles that may appear in concrete already in place.

### Metals

Experience in the testing and inspection of metal products such as castings, forgings, etc., has shown that microscopic examination of polished specimens is one of the most useful means of judging the quality of these materials. Accordingly, microscopic examination now forms a regular part of the inspection of all steel castings and forgings, in addition to its use in studying the causes of failure and low quality in such materials as iron and bronze castings, structural steel, pipe, rails, welded joints, etc.

### Equipment

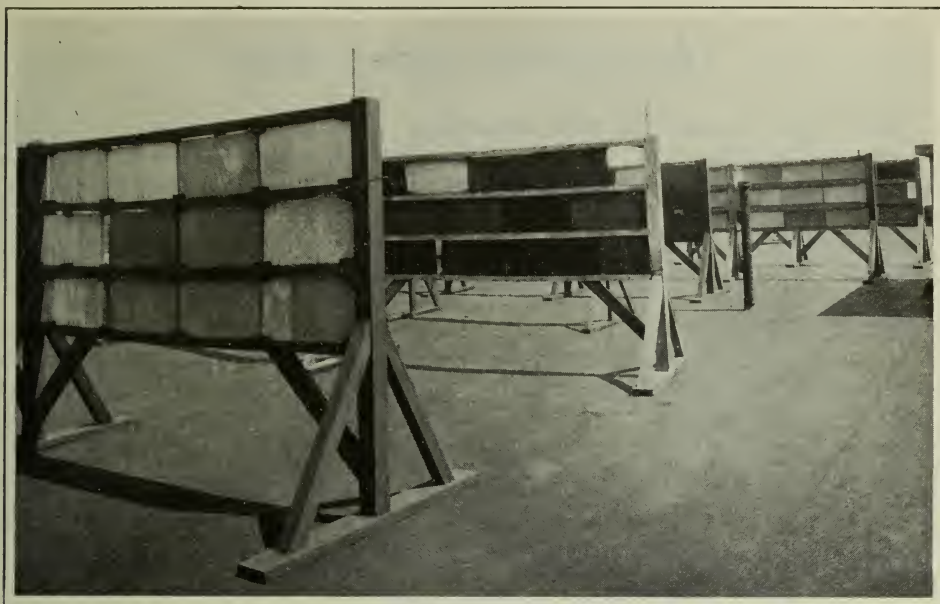
An Amsler calibration box has been added to the equipment to permit frequent calibration of the four testing machines in the laboratory. This apparatus has a capacity of 100,000 pounds in both tension and compression and is a marked improvement over the ordinary proving levers which were in the past the only means available for checking the accuracy of the testing equipment.

## Chemical Laboratory

The work here continues in the same manner as in the past, but in increasing volume. A wide variety of work is carried out covering almost the entire field of analytical chemistry. As usual paints and oils receive special attention.

### Paint

Three major series of tests were carried out on paints. The first was on concrete floor paints. Twenty-four of these were placed on a strip of floor at the Queenston powerhouse. At the end of six months eleven of these had completely failed, ten were showing indications of giving out and only three were in entirely satisfactory condition. The second series was on water paints and comprised nineteen different materials. These were classified into three



#### CHEMICAL LABORATORY

Paint tests. Slabs treated with the paints under test exposed to the weather on the roof of the laboratory

classes,—superior quality, average quality and poor quality. Four fell in the first class, eight in the second and seven in the third. The first two classes comprise paints that are all serviceable under certain conditions, and the third class comprises paints which would not be considered for use. The third series was of paints for under water and for service involving exposure to air and water alternately. In this series twenty-eight different paints were painted on 6 x 48 inch steel panels and placed in a suitable location at the Ontario Power Company. These paints have only recently been placed under test and no results on their serviceability are yet available. Besides the tests just described other smaller series have been run on luminous paints and on roofing cements, while about thirty samples have been tested in the routine examination of paints purchased.

#### Transformer Oils

A considerable amount of study has been given to the problem of deterioration of transformer oils in service, and more particularly to their sludging. It is too soon to form any conclusion as to the success of this work but the results to date are promising.

#### Photographic Branch

No new development worthy of special mention has occurred in the work of this branch. The volume of routine photographic and blueprinting work remained at about the same level as last year. Periodical visits to Niagara Falls were continued; a special series of photographs illustrating rural applications of electric power was made, and the work of renewing the identification cards was begun. In addition to routine work a considerable number of enlarging and copying orders were received, as well as several orders for lantern slides.

## ELECTRICAL INSPECTION

The work of the Electrical Inspection department has been somewhat less during the past year, reflecting the relatively quiet industrial conditions which have prevailed throughout the Province. As compared with the previous fiscal year the receipts were about 8 per cent lower, the number of permits issued was 90,497, a decrease of about 1 per cent, and the number of inspections made was 176,108, a decrease of about 3.5 per cent.

### Defective Installations

In connection with its inspection work recommendations are made by the department in the case of installations which do not comply with the standards required in the interests of general public safety. The public, as a whole, recognizes the value of the recommendations made and has shown a willingness to co-operate by making the necessary changes and re-wiring defective installations. This year the amount which it is estimated has been expended by various consumers on this class of work exceeds \$480,000, an increase of 33 per cent over that of 1923.

### Rules and Regulations

The work of revising the Commission's Rules and Regulations was completed and a new revised edition (the Seventh) was published. This revision was very thoroughly carried out and the whole book was brought up to date. It is gratifying to record, therefore, that this revision has been found to be very satisfactory in practice and some of the rules, for example, that permitting the use of 15-ampere fuses on branch-lighting circuits (i.e. to protect No. 14 B. & S. gauge wire) instead of 10-ampere fuses as formerly, and also the rule allowing the use of single-pole and double-pole fuses and switches on two- and three-wire circuits respectively, tend to reduce the cost of installation work and are, therefore, of distinct advantage to the community.



## SECTION VIII

### ELECTRIC RAILWAYS

#### ESSEX DISTRICT RAILWAYS

##### Way and Structures

During the past year further rehabilitation of the system was proceeded with in order to bring the remaining parts of the system (which had not previously been covered) up to normal operating efficiency.

On the interurban lines over 11,000 treated ties with tie-plates were installed, and several miles of crushed stone ballast were laid, thus completing rock ballasting of all open track construction on both Tecumseh and Amherstburg interurban lines, with the exception of about three miles through Ojibway.

The section of double track westerly from the Windsor city limits to Patricia avenue in Sandwich was excavated and new ties and rails were installed where necessary. All joints were welded, and the track was rock ballasted with macadam binder and placed in good operating condition.

Extensive repairs were made on the Windsor car barns, including the replacement of practically the entire wall of the most westerly barn.

A very considerable amount of new work was performed over the entire system, the more important items being the following:—

In Sandwich on Sandwich street two complete "blocks" of signals were installed, extending from Brock street to Spring's loop.

On Wellington street, Windsor, a new open-track passing siding, 350 feet long, was constructed near London street.

To improve the service on Ouellette avenue the single track extending from Maple street to Ellis street was removed, and replaced by double-track construction with 80-lb. A.S.C.E. section rail, 60-feet long, laid on twin-steel ties imbedded in concrete, with trap-rock concrete wearing surface.

Owing to the necessity for increased office facilities, a frame addition to the rear of the second storey of the superintendent's office on London street was constructed. This added two rooms to the accommodation.

To improve the power conditions on the line, a 500,000 c.m. double-braided weather-proof cable was erected, extending from the Salt Block substation via London street and Ouellette avenue to Erie street.

Arrangements were concluded with the city of Windsor for the erection of combination light and trolley steel poles, on London street, from Ouellette avenue westerly to the Windsor city limits. This work is now being carried out.

The new double-track line replacing the Erie Avenue bus line, which operated on Erie street, Parent avenue, and Ottawa street to Lincoln road, was completed in the autumn of 1923, and immediately put in operation. Standard track construction with 80-lb., A.S.C.E.-section rail, 60-feet long was laid throughout, with the exception of the portion through the special track work,

and on Parent avenue. On the latter open construction was adopted, on creosoted ties with tie-plates. Owing to the town of Walkerville not being ready to proceed with the street widening of Ottawa street, the projected extension from Lincoln road to Walker road was deferred.

With the construction of the Erie-Ottawa double-track line, the trackless trolley bus line on Erie street, Langlois avenue, Ottawa street, Gladstone avenue, and Giles boulevard was discontinued, and the overhead construction was revised to provide for the new conditions.

On account of rapid growth of population in the outlying section of Walkerville, south of Tecumseh road, the trackless trolley line was extended via Byng road, Lens avenue and Turner road to Vimy avenue, which is now the terminal of that line.

On Ottawa street in Ford City two passing sidings were constructed at Strabane avenue and Pillette road. Each siding is 500 feet long, of 60-lb. relay rail, on treated ties with tie-plates, and crushed stone ballast.

The automatic, block-signal system which was installed in 1922 on Sandwich street, between Ouellette avenue and the Ford "Y", was extended to Pillette road in order to take care of the extended city service and protect the movement of cars between the two new sidings which were constructed on Ottawa street at Strabane avenue and Pillette road.

The town council of Riverside requested the Commission to remove the street railway tracks from the north side of Ottawa street to a double-track reservation in the centre, which extended easterly from the western town limits for a distance of 7,000 feet; the town assumed the cost of removal and the work was proceeded with upon completion of the sub-grading by the municipality.

A new copper telephone line from the car barns to Tecumseh was erected to replace the old line which had outlived its usefulness.

An agreement was concluded with the Essex county council whereby the Commission agreed to move its tracks at Sunnyside, to the new right-of-way purchased by the county, thus eliminating the sharp curve formerly existing at this place. The work is now proceeding, and when completed will materially improve the line. A standard shelter was also erected at this point.

The trestle approaches to the steel spans crossing the Canard river were filled in, and after settlement has taken place the timber decking will be removed.

A joint wood-pole line 35 feet high was constructed carrying the railway and rural power lines from Stop 69 to Stop 79, Amherstburg division.

Serious erosion by the Detroit river of the highway, near Amherstburg, upon which the railway is situated, led to the matter being taken up with Essex county council; an agreement was reached whereby the County and the Commission each assumed one-half the cost of placing rip-rap along about 750 feet of shore line. The work was handled by dumping large stone from cars on the railway.

Following the consummation of an arrangement respecting the handling of express business, an extension to Amherstburg station was constructed to provide increased facilities.

A one-half-ton service truck was added to the Way equipment to facilitate the movement of small supplies.

The overhead truck in service having outlived its usefulness was replaced by a modern 2½-ton truck, with air-lift hoist, and modern equipment.

A resolution was passed on October 5, 1923, by the Transportation committee of the Border Cities Joint Board, requesting the Commission to prepare



ESSEX DISTRICT RAILWAYS  
Sandwich Street, Ford City, before rehabilitation



ESSEX DISTRICT RAILWAYS  
Sandwich Street, Ford City, after rehabilitation



a report and plan, respecting the feasibility and probable cost of a subway or bridge connecting Wyandotte street, Walkerville, to Ottawa street, Ford City. A report was accordingly prepared and presented to the Border Cities Joint Board on April 11, 1924.

Two schemes were submitted, with a recommendation, that the route be adopted via a new diagonal street from Wyandotte street to Edna street, thence via Edna street to Ottawa street. This scheme involved two subways under the P.M.R. and C.N.R. It was suggested, owing to the magnitude of the work, that it be proceeded with as conditions warranted, and that any public works affecting the scheme should be made to conform to the recommended route.

The Joint Board adopted the recommendation, and arrangements were made shortly after by the Walkerville council to open up Wyandotte street extension, as proposed, in order to permit the Commission to proceed with the double-tracking programme, and to insure that the new track would not have to be torn up and relaid if and when the larger scheme should be put into effect. Ford City council also defined a building line on Edna street conforming to the proposed limit of the suggested new thoroughfare. Immediately this matter was definitely decided upon, and purchase made of the necessary right-of-way the Commission commenced to construct its tracks according to the approved plan and the work is now in progress.

#### **Equipment:**

The additional car service supplied on these railways since they were taken over by the Commission has made it necessary to arrange for further substation equipment. A suitable lot has been purchased on McDougall avenue, adjoining the Windsor municipal substation, and a temporary galvanized-iron building is being erected in which will be installed one of the 500-kw rotary-converters that was formerly used on the disposal railway of the Queenston-Chippawa power development. This machine will be placed in service during the next few weeks in order to help out the steam-driven plant on Sandwich street west. The temporary building has been made large enough to accommodate a second converter and the question of constructing a permanent building will be held in abeyance for a year or two, it being anticipated that an automatic station with two 1,000-kw rotary-converters will later be required for supplying the load in the central portion of the Border Cities. The smaller machine will thereupon be moved to the outlying districts to take care of the anticipated growth in such sections.

Provision is being made for the erection of necessary feeders from the McDougall Avenue substation, more particularly to the south-east section of Windsor and Walkerville, in order to give a better supply of power to the trolley bus routes operating through that territory.

The eight double-truck, double-end motor cars, mentioned in last year's report, were delivered during the summer and have proved very satisfactory in handling the heavy peak loads encountered on the city sections of this railway. These cars are equipped with the latest apparatus and are arranged to operate in trains of two or three cars; this feature will no doubt prove very desirable.

The Commission has had some difficulty in supplying two modern-type cars suitable for the Amherstburg division, as practically no equipment of this type has been built in Canada. The cars provided have short single-door vestibules and are divided into the main and smoking compart-

ments. The trucks and motors are considerably heavier to give improved riding qualities and to permit high speeds to be maintained on the interurban sections. Delivery of these two cars is expected in the next few weeks.

### Operation

The Commission is pleased to report a continued increase in revenue for the Essex District railways in spite of the fact that many of the industrial plants were working on short time. The condition of the automobile industry was one of retrenchment, and this condition was reflected in quite a number of local plants. It will be noted in the accompanying graphs that the revenue continues to increase yearly at a very satisfactory rate and that the operating expenses per car mile show a slight decrease. The passenger revenue shows an increase of \$86,674.19, but the freight revenue shows a decrease of \$6,480.00. The gross revenue for the year was \$774,907.11 as compared with \$688,416.00 for the year ending October 31, 1923. This compares with a gross revenue of \$377,000.00 in the year 1919, which was the year previous to Hydro operation. The net operating revenue was \$186,248.78. The surplus for the year ending October 31, 1923, was \$34,463.00. The surplus for the year ending October 31, 1924, is \$13,980.33.

While the surplus is not as large as for the year of 1923, considerable sums of money were expended in construction work which was charged to maintenance. Notwithstanding the fact that 70 per cent of the track and overhead in this district has been rebuilt, approximately \$63,000 was spent by the Operating department in renewing and rehabilitating track and overhead on the balance of the line, and over \$50,000 on maintaining and rebuilding car bodies and trucks. The line is now in first-class condition, the interurban lines being all completely rock ballasted and the city lines being brought up to a high state of repair. Automatic block signals on the Tecumseh division have been extended to the Ford City limits, resulting in improved operating conditions. An all-night service was established in Windsor, Walkerville, Ford and Sandwich in August. This service has been of great advantage to the residents of that section, and the revenue has been more than sufficient to take care of the cost of operation. The number of passengers carried for the year, on all lines, was 13,330,081, being an increase of approximately one million over the previous year. The passengers carried on the Lincoln Road bus line were practically the same in number as in the previous year, notwithstanding the fact that the Erie Avenue line also taps the Lincoln Road district and gives a considerably improved service over the trackless trolley line, which formerly operated over this route. The M.C.R. and Ouellette Avenue lines show normal increases, while the Walker Road line shows a decrease of about 3,000 passengers per month as compared with the corresponding period in 1923, this being caused by the better facilities offered on the Erie Avenue line. The Crosstown line shows an increase of about 150,000 passengers a month as compared with the previous year. The operation of one-man cars in this section continues to be satisfactory, and notwithstanding an increase of over 300,000 additional car miles, accidents in 1924 were reduced from 20.59 per 100,000 car miles to 15.60 accidents per 100,000 car miles. For the year ending October 31, 1924, 293,304 car miles were operated with single-truck hand-brake cars, these cars being used on the light-travel sections, and there were 14.31 accidents per 100,000 car miles at a cost of 2.20 cents per car mile. There were operated 624,727 car miles with double-truck air-brake cars on the interurban lines, accidents being 9.28 per

100,000 car miles at a cost of 0.22 cents per car mile. The one-man single-truck safety cars, were operated 777,065 car miles, with 19.94 accidents per 100,000 car miles at a cost of 0.54 cents per car mile. The double-truck, one-man—two-men cars operated 365,616 car miles, with 19.41 accidents per 100,000 car miles, at a cost of 0.44 cents per car mile. The trackless-trolley busses operated 51,448 bus miles with 25.26 accidents per 100,000 bus miles at a cost of 2.46 cents per bus mile. The total cost of accidents was 0.72 cents per car mile. There were two boarding and alighting accidents on our safety cars for 1,142,681 car miles, for neither of which the operating staff was responsible, while with the older type of car there were 14 boarding and alighting accidents for approximately 931,000 car miles. This record is considerably lower than is found in the records that are available from companies operating in the United States, where, with the safety car, the average seems to be approximately 38 accidents per 100,000 car miles. The following operating statistics will prove interesting:—

### ESSEX DISTRICT RAILWAYS

#### Operating Statistics

Route-miles:		
City trolley.....	16.71	
City trollibus.....	2.99	
Amherstburg interurban.....	13.54	
Tecumseh interurban.....	6.11	
Total route-miles.....		39.35
Passenger and freight car-miles operated.....	2,151,349	
Passenger and freight car-hours operated.....	259,401	
Accidents.....	343	
Passengers carried.....	13,330,081	
Percentage of transfer passengers to revenue passengers.....	11	
Passenger cars operated.....	62	
Passengers carried per route-mile.....	338,756	
Passengers carried per car-mile.....		6.3
Passengers carried per car-hour.....		52.6
Average mileage per car operated.....	34,067	
Average passengers per car operated.....	215,001	
Freight tonnage carried.....	17,203	

### COMPARATIVE FIGURES SHOWING GROWTH

Year.....	1920-21	1921-22	Per- cent- age of 1920-21	1922-23	Per- cent- age of 1920-21	1923-24	Per- cent- age of 1920-21
	\$	\$		\$		\$	
Passenger earnings.....	488,185	526,982	108	625,601	128	717,356	147
Freight earnings.....	9,883	19,470	197	50,570	512	44,090	446
Miscellaneous earnings.....	7,757	10,339	133	12,244	158	13,460	174
Gross earnings.....	505,826	556,792	110	688,416	136	774,907	153
Operating expenses.....	426,604	436,910	102	500,202	117	588,658	138
Net earnings.....	79,222	119,881	151	188,214	237	186,248	235

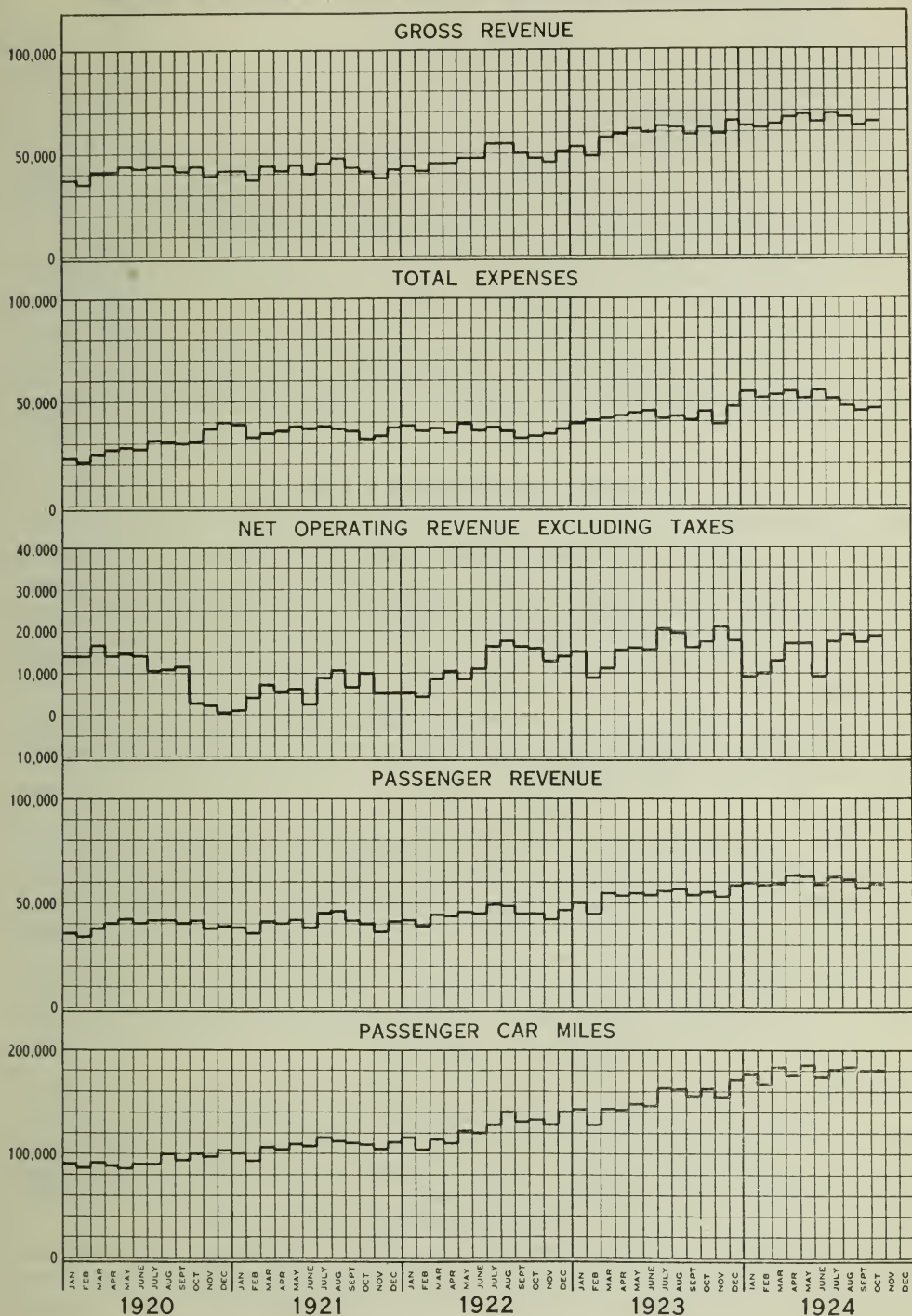
NOTE.—In the above table the cents have been omitted and the percentages are given to the nearest whole number.

#### Population Statistics

The following tabulation shows the present population of the Border Cities. The growth has been so rapid and consistent that the prediction may safely be made that there will be about 100,000 people living in this district before the end of 1927.



## ESSEX DISTRICT RAILWAYS—OPERATING STATISTICS



NOTES: 1919—May and July, strikes. December, power interruption.  
 1921—Fare increased from 6 for 25 cents to 5 cents straight, effective July 1.  
 1922—Fare increased to 6 cents cash, 20 tickets for \$1.

Municipality.	Population.
Windsor.....	52,638
Ford City.....	9,204
Walkerville.....	8,558
Sandwich.....	7,035
Riverside.....	3,300
LaSalle and Ojibway.....	800
Total.....	81,335

To the above total should be added the population residing close to the above municipalities and along the interurban lines as follows:—

Anderdon Township.....	1,782
Sandwich East.....	1,794
Sandwich West.....	2,870
Amherstburg.....	2,809
Tecumseh.....	1,665

In Windsor alone last year over 578 dwelling houses were erected, and many large and small apartment houses, at a total cost of over \$3,000,000.

## GUELPH DISTRICT RAILWAYS

### Way and Structures

In the complete rehabilitation of the system it was deemed advisable to get the maximum life out of any special track work in place. During the past year the special work turnout, for the south end of Clark Street siding was renewed in manganese insert steel; two switches, two mates, and one frog in manganese insert work, in front of car barn on Waterloo avenue, were also replaced.

The unpaved track reservation of the entire system, with the exception of the Ontario Agricultural College line, was gone over, carefully filled in with gravel, and on some streets oiled.

### Equipment

During the current year the entire equipment on the Guelph lines was overhauled and all wearing parts were renewed and put in first-class operating condition. This work has been carried out on a mileage basis, all cars having operated practically 100,000 car-miles. This overhauling was accomplished within the last four months of the fiscal year and covered the replacing of pinions, gears and wheels and the complete renewal of all wearing parts. The equipment is in first-class condition and has fulfilled all of the expectations of the Commission since its installation.

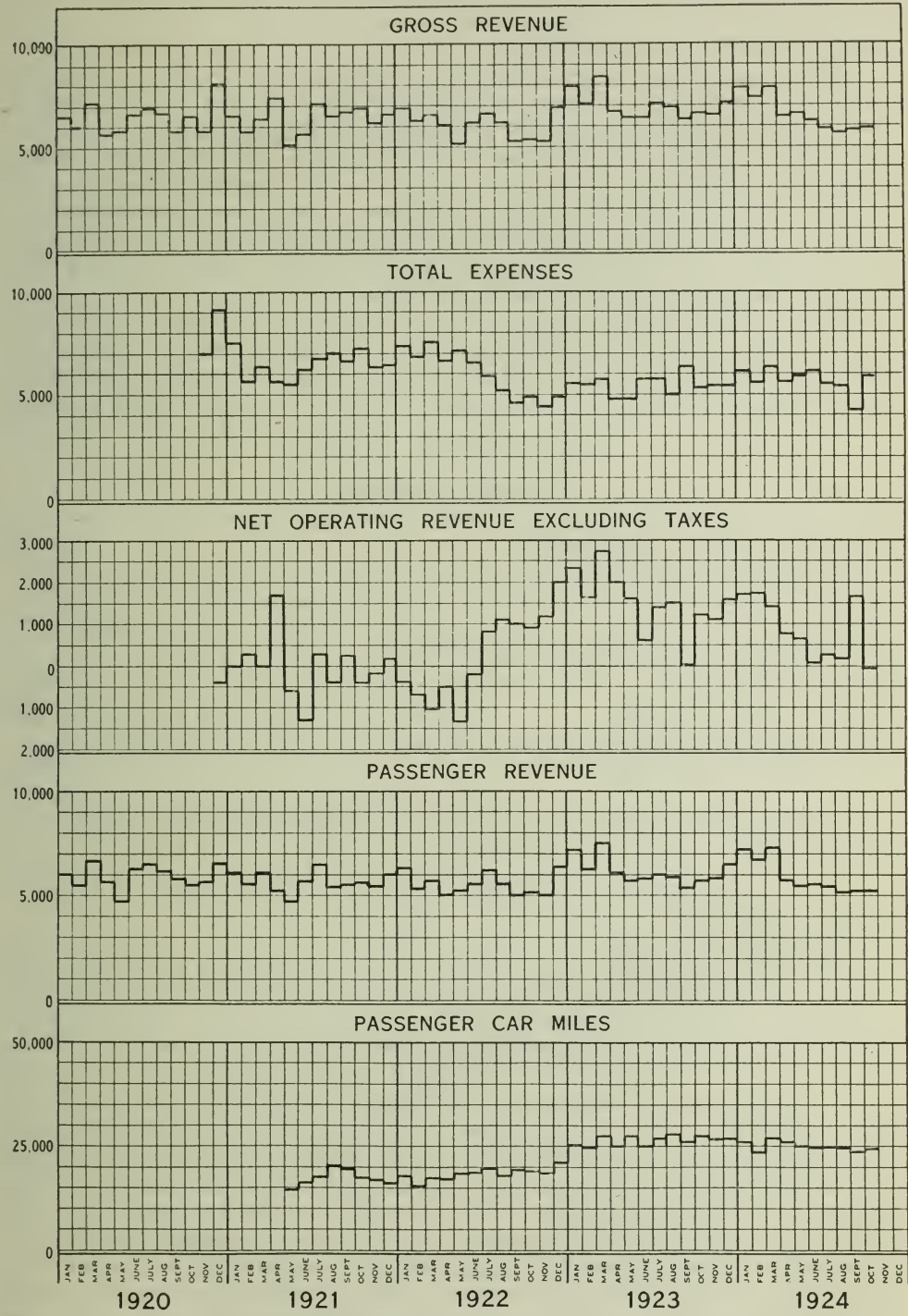
### Operation

The quiet industrial conditions that existed in Guelph during the past year are similar to those experienced in various other sections of the province and have been reflected in the revenue received on this division. The Agricultural College was also affected, there being 33 per cent fewer students than in previous years; this fact accentuated the decrease in revenue.

In Wellington county, in 1924, there were 3,519 passenger and 195 commercial auto licenses granted and in the city of Guelph there were 1,567 passenger and 175 commercial licenses issued. This is the equivalent of 12.3 persons per auto car.

The population in the Guelph district in 1924 was 19,219, an increase of approximately 345 people during the year. The car mileage for the year

GUELPH DISTRICT RAILWAYS—OPERATING STATISTICS



NOTE: Operation by Hydro-Electric Power Commission commenced on May 1, 1921.



remained practically the same as for 1923, being 302,427 as compared with 304,168 in 1923. Passenger revenue for the year shows a decrease of \$2,085.79 and freight revenue shows a decrease of \$952.47, the total decrease in revenue from all sources for the year being \$2,827.12.

Operating expenses show an increase of approximately \$4,442 as compared with the previous year. Of this amount, \$2,143.75 was for increased cost of power, which is assessed by the city of Guelph for power supplied to the Railway department. Expenses in reballasting totalled \$620. There was an increase of \$396.49 for removal of snow on account of severe winter conditions and an increase of \$532.00 for additional track labour. The above increases, coupled with the large expenditure in connection with the rehabilitation of equipment, which exceeded that spent during the previous year by approximately \$1,000, is responsible for the increase in operating costs.

Accidents for the year numbered 41—as compared with 80 in the previous year, or 13.55 accidents per 100,000 car-miles. With the new safety equipment alighting and boarding accidents have been eliminated on the cars, none having occurred during the year. The total cost of accidents was 0.16 cents per car-mile.

### GUELPH DISTRICT RAILWAYS

#### Operating Statistics

Route-miles.....	8.4
Passenger and freight car-miles operated.....	302,427
Passenger and freight car-hours operated.....	36,524
Average number of employees.....	28
Accidents.....	41
Passengers carried.....	1,484,519
Percentage of transfer passengers to revenue passengers.....	12.9
Passenger cars operated.....	8
Passengers per route mile.....	174,855
Passengers carried per car-mile.....	4.9
Passengers carried per car-hour.....	41.7
Average mileage per car operated.....	37,305
Average passengers per car operated.....	185,565
Average riding (revenue) habit.....	77.2

A glance at the accompanying graph will show the approximate conditions existing yearly since the Commission took over the operation of the line in May, 1921.

### TORONTO AND YORK DISTRICT RAILWAYS

#### Way and Structures

*Metropolitan Division:* A number of improvements were made on this division in order to bring the line up to the standard adopted by the Commission. New 80-lb., A.S.C.E.-section rail, 60 feet long, was laid on tie-plates, extending northerly from the Don River bridge to the Mausoleum crossing of Yonge street. All tie renewals south of Newmarket were tie-plated.

In compliance with the order of the Board of Railway Commissioners, the over crossing of the Northern division of the Canadian National Railways on private right-of-way was abandoned, and the track replaced through the new Yonge Street subway, constructed by the Canadian National Railways and the Department of Public Highways. The Commission was assessed 20 per cent of the total cost, and was further required to replace the old interchange to the north of the Canadian National Railways by the construction of a new transfer track. New 80-lb., A.S.C.E.-section rails, 60 feet long, on creosoted ties with tie plates, were laid through the subway, on crushed stone ballast, for a distance of 2,000 feet.

On Yonge street in Aurora, extending southerly from Wellington street to the railway station, the track was lowered to conform to the pavement grade; and new material, including ties, rails where necessary, and ballast, was placed.

Improvements to the Commission's terminal at North Toronto made during the year included paving in front of the freight shed and passenger station, grading, construction of a retaining wall and planting of trees.

New standard shelters of sheet-metal construction were erected at the Summit Golf Club and at Sharon; the old shelter at Stop 23 was moved across Yonge street and reconstructed.

A new combined station, despatcher's office, and freight shed was erected at Schomberg Junction, replacing the old buildings.

The new lavatory and activated sewage-disposal plant at Bond Lake was opened in June. Owing to shortage in Park water supply an additional pump, which has been kept in reserve for emergency, was installed in conjunction with a 1,000-gallon pressure tank to supplement the existing supply.

At Newmarket, to improve operating conditions, a new passing siding and team track were constructed, and a triangular portion of the car barns was removed on Park street to improve the vision for both railway and vehicular traffic.

The installation of block signals from the Toronto city limits to Morgan's siding was completed, and has added greatly to the operating efficiency of the line.

A complete survey of the pole lines pertaining to the railway has been made, each pole being numbered, registered, and marked with a small aluminum plate.

*Scarboro Division:* Between the Hunt Club switch and the car barns 1,265 feet of 80-lb., A.S.C.E.-section, 33-foot rail were laid, replacing worn-out 56-lb. material. One-half mile of 60-lb., A.S.C.E.-section, 33-foot rail was laid between Mason's siding and Fronts Hill.

All shelters on the line, including the Westhill station, were repaired and painted. Those situated on the opposite side of the Kingston road to the radial line were moved across the highway.

The old timber bridge over Skelton road, which has outlived its usefulness, is being replaced with a permanent steel structure fabricated by McGregor & McIntyre from surplus steel from the Niagara development.

*Mimico Division:* Supplementing the drainage improvements through Mimico carried out last year, a number of plank crossings were erected over the open ditch which had been dug to provide for flood conditions. Several storm water catch basins with connections to sewer were also installed.

About four miles of new 80-lb., A.S.C.E.-section, 60-foot rail has been received but the laying of this is deferred pending the conclusion of negotiations with the municipalities for double tracking.

Immediately the new cars ordered last year were received the whole trackage of the Mimico division was changed to standard gauge. The older rolling stock was withdrawn and the necessary changes were made before it was put back into service. At the same time a connection was made with the St. Lawrence Starch Works spur at Port Credit, so that carload lots of construction material could be transferred to the Commission's railway without breaking bulk.

The substructure of the Humber River bridge, which had for some time needed renewal, was reconstructed in June. The work, which consisted of erecting new timber bents on existing piles cut off below water level, was carried out by the Russell Construction Company without serious interruption of traffic.

Repairs to the old timber trestle approach to the Etobicoke River bridge have been put in hand and a portion of the work will be completed this season.

New standard steel shelters were erected at the Rifle Range and Brown's Line.

### Equipment

*Metropolitan Division:* The extension of the Toronto Street Railway system to the northern limits of North Toronto has resulted in suburban development being pushed further northward. This has necessitated additional service on the Metropolitan division from the city terminal to Thornhill, a distance of about six miles. The additional service in turn has made necessary the installation of an efficient type of trolley contact signals for four and a half miles, as far as Morgan's switch. These signals permit a considerable speeding up of traffic and give additional protection.

*Scarboro Division:* The five double-truck cars being rebuilt for this division are practically finished, but some delay has been experienced due to non-receipt of the motors. These cars are practically duplicates of the four new cars placed in service on the Mimico division and are expected to make a considerable improvement in the service both in comfort to the passenger and in speed.

*Mimico Division:* The four modern, double-truck cars referred to in the previous Report were placed in service towards the end of the summer and are apparently much appreciated. They are provided with the latest type of apparatus and can be operated in trains of two or three cars each. Considerable study was given to the arrangement of the doors so as to permit passengers to board and alight from either side of the car at either the front or the rear end. This arrangement involves extra equipment, but the operating conditions along this railway seem to require such special attention. The same holds good in the matter of headlights, and observations and experiments, extending over a period of eight or ten months, were made in order to select a type that would give sufficient light for safe operation and at the same time interfere as little as possible with automobile traffic on the adjoining highway. Specialists from various manufacturing companies made a number of trips to assist in tests and also supplied a large amount of test equipment which was inspected in actual and special service on the Metropolitan division over a period of several months. As matters now stand the headlights from automobiles are a greater menace to the railway operators than the railway headlights are to automobile traffic and it is hoped that legislation will soon be enacted to prohibit the use of dangerous headlights. These are usually on pleasure automobiles and create a hazard to electric cars which are operated as a public necessity.

Coincident with the supply of the four new cars during the summer, the gauge of the old cars was changed from 4 ft. 10-7/8 in. to 4 ft. 8-1/2 in. Arrangements have also been made to overhaul four of the older cars that are in fair operating condition so as to permit them to be used in the same service as the new cars. This requires the rearrangement of the doors so that passengers may be picked up or set down from either side. These reconditioned cars will be ready for service early in the new year and it is anticipated that the four new cars will be delivered also early in 1925. The putting into service of these cars will ensure better service during the coming summer.

### Operation

The operation of the Toronto and York Radial Railways for the year 1924 continues to show a deficit as was expected, in view of the fact that the con-





TORONTO AND YORK DISTRICT RAILWAYS  
Schomberg and Aurora Junction station

templated improvements are not yet complete. It is expected that by the early summer the railways will be in a position to benefit by the advantages that the recommended capital expenditures of 1924 will produce. A careful study of the Schomberg and Aurora division has resulted in the Commission recommending to the city of Toronto that service on that line be discontinued and the line either scrapped or disposed of. This division has been a losing proposition since its inception and inasmuch as there is no feasible way of obtaining additional revenue, it is felt that continuing the operation of the line is not warranted.

*Metropolitan Division:* The passenger revenue on the Metropolitan division for the fiscal year 1924 was \$345,897.32 as compared with \$348,451.49 in 1923. The decrease in passenger revenue was caused by quiet industrial conditions and the fact that considerable business was lost through bus competition.

The freight revenue for 1924 was \$115,085.94 as compared with \$172,608.00 in 1923. The decrease in freight revenue was caused by quiet industrial conditions and was due in part to the cessation in this section of work by the Department of Public Highways. During the year 1923 approximately 50,561 tons of sand and gravel, 2,969 tons of cement and 3,261 tons of building material were used in highway construction in the section served by this railway. This tonnage was entirely lost during the year 1924. The average revenue per ton for freight handled in 1923 was \$1.30.

There was a decrease in operating expenses of about \$56,775, \$4,940 in way and structures, which were \$101,965 in 1924. This, however, is about \$30,000 higher than it will be as soon as the deferred maintenance, which was neglected previous to the Commission taking over operation, has been adjusted. Maintenance of equipment was approximately \$9,563 less in 1924 than 1923. There was also a decrease of about \$11,527 in power cost. Conducting transportation was \$17,251 less in 1924 than 1923 and there was a decrease of approxi-

mately \$13,492 in general and miscellaneous expenses, notwithstanding additional car miles.

A new freight terminal and store room at No. 4 Sherbourne street was leased from the Toronto Transportation Commission. This was necessitated on account of the sale of the old stores department and car barn at 1440 Yonge street. It has been the means of effecting a large reduction in cost of freight cartage, the freight being handled between the Sherbourne Street terminal and the main freight terminal at old Stop 26 by motor truck and trailers.

*Scarboro Division:* On the Scarboro division, the new equipment is completed and is ready for installation as soon as weather conditions permit of the changing of gauge of the track. With the proposed changes on this division, it is expected that the decrease in operating costs will be such as will make the line self-sustaining.

The revenue for the fiscal year was about \$87,056 as compared with \$88,276 for 1923, a decrease of \$1,220, the cost of operation showing an increase of about \$2,521 over the previous year.

*Mimico Division:* On the Mimico division very few changes have been made pending the determination by the municipalities whether or not the portions of the line passing through the respective municipalities would be taken over. While the revenue on this division has shown a decrease and the operating expenses an increase over last year, it is believed that on the completion of the installation of the new equipment and of the changes suggested by the Commission this line will more than carry the operating expenses and fixed charges. The bus operation has been the cause of considerable reduction in the traffic and this competition has been favoured by the lack of efficient service on this division. It will largely be eliminated with improved service. Four new double-truck cars are being built by the Ottawa Car Company and four cars are being rebuilt by the Toronto Transportation Commission. These cars will put the equipment on this division in first-class shape. The four new double-truck cars which were on order when the last Report was presented were delivered and have been in service for the past five months and are giving excellent satisfaction.

The gross revenue on the Mimico division for 1924 was about \$177,060 as compared with \$208,407 for the previous year, a decrease of \$31,346. The cost of operation shows an increase of \$19,802 over the previous year. The principal increases were made up of improvements in way and structures, including quite a large amount of tie renewals, rails and repairs to bridges, etc.

Approximately \$18,000 was set aside during the year on the Toronto and York District for pension and insurance for the employees.

## TORONTO AND YORK RADIAL RAILWAYS

### Operating Statistics, 1924

#### Route Miles—1924

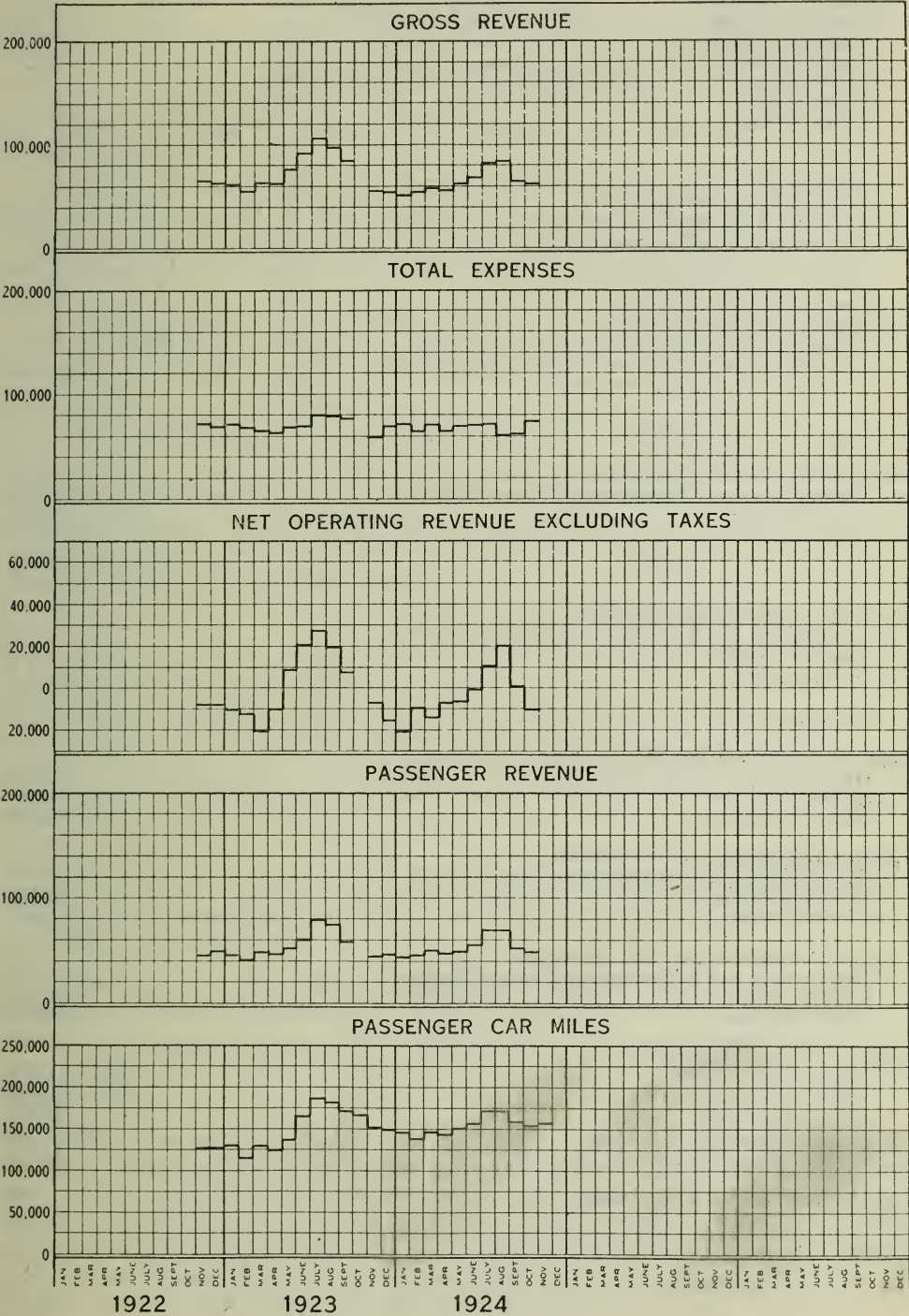
Metropolitan and Schomberg and Aurora division.....	62.98
Scarboro division.....	8.34
Mimico division.....	8.62

#### Passengers carried—1923-1924

Metropolitan and Schomberg and Aurora division.....	1,752,797
Scarboro division.....	1,275,419
Mimico division.....	3,218,375

TOTAL..... 6,246,591

TORONTO AND YORK DISTRICT RAILWAYS  
OPERATING STATISTICS





## TORONTO AND YORK RADIAL RAILWAYS—Continued

## Operating Statistics, 1924

Accidents—1923-1924	Metropolitan division	Scarboro division	Mimico division
Passengers killed.....	0	0	0
Passengers injured.....	17	9	29
Employees killed.....	2	0	0
Employees injured.....	12	3	6
Others killed.....	0	0	0
Others injured.....	5	11	10
Collision of cars.....	0	0	1
Derailments.....	0	0	0
Passengers hurt boarding cars.....	4	7	3
Passengers hurt alighting from cars.....	9	4	16
Vehicles and animals struck.....	7	1	1
Automobiles struck.....	33	19	18
Pedestrians hit by car.....	3	4	4
Passengers falling from cars.....	0	0	3
Passengers hurt while on cars.....	1	1	5
Passengers hurt otherwise.....	0	0	3
Miscellaneous accidents and occurrences (including track and shop departments).....	35	6	15
TOTAL.....	92	42	69

## Passenger Car-Miles Operated

Metropolitan and Schomberg and Aurora division.....	779,066
Scarboro division.....	322,483
Mimico division.....	621,043
TOTAL.....	1,722,592

## Passengers Carried per Car-Mile

Metropolitan and Schomberg and Aurora division.....	2.2
Scarboro division.....	3.9
Mimico division.....	5.2
All divisions.....	3.6

## Passengers Carried per Route-Mile

Metropolitan and Schomberg and Aurora division.....	27,831
Scarboro division.....	152,928
Mimico division.....	316,769

## Average Mileage per Car Operated

Metropolitan and Schomberg and Aurora division.....	35,412
Scarboro division.....	40,310
Mimico division.....	32,686

## Average Passengers per Car Operated

Metropolitan and Schomberg and Aurora division.....	79,672
Scarboro division.....	159,427
Mimico division.....	169,388

## Freight Tonnage Carried

Total freight.....	tons	61,175
Freight tonnage per car-mile.....	"	0.555
Freight revenue per car-mile.....		\$1.04
Freight revenue per route-mile.....		\$1,827.34
Freight revenue per ton.....		\$1.88

Average Number of Employees.....	355
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## SECTION IX

### FINANCIAL STATEMENTS

#### EXPLANATORY STATEMENT RESPECTING THE ACCOUNTS

The Hydro-Electric Power Commission of Ontario believes that a satisfactory understanding of the manner in which the various operations of the Commission are financed will contribute greatly to the interest of those engaged either directly or indirectly with the work of the Commission.

In this section of its Annual Report the Commission presents detailed financial statements which may easily be understood although, upon casual inspection, they might appear somewhat complex.

For the purpose of financial statement, the various systems are treated as quite separate units for each of which similar statements and details are given. Many of the pages which follow, therefore, simply repeat for each system the class of data which is presented for the first system dealt with, namely, the Niagara system. In order, therefore, to possess a ready grasp of all the figures presented in this and other similar reports of the Commission, all that is necessary is to have a true understanding of the financial procedure followed in connection with one system and with one municipal Hydro utility.

The accounts of the Hydro-Electric Power Commission of Ontario are audited by auditors specially appointed by the Provincial Government. The accounts of the Hydro utility of each individual municipality are prepared according to approved and standard practice and are also duly audited. In fact, in preparing the various financial reports and statistical tables relating to all Hydro enterprises, the greatest care is exercised and all statements are presented in such form that they may be comprehensive and at the same time easily understood.

It is proposed here to explain briefly the general plan of the financial operations of the Commission and in the course of the explanation to illustrate by reference to specific data.

The balance sheet which immediately follows, exhibits the assets and liabilities of the Hydro-Electric Power Commission of Ontario in respect of all of its undertakings, except those of the "Central Ontario and Trent" and "Nipissing" systems—which, owing to special conditions, are separately submitted.

It will be understood that this statement of assets and liabilities and the financial tables which follow relate to the properties constructed and operated by the Commission as trustee for the municipalities; and the balance sheets, operating reports and statistical data appearing in Section X, under the heading of "Municipal Accounts," refer to the operation of the municipalities' properties within the boundaries of those municipalities which have contracted with the Commission for their supply of electrical energy.

The whole Hydro-Electric undertaking of the municipalities, so far as finances are concerned, is operated in what may be termed two distinct divisions. The first division covers the generation, transformation, and transmission of electrical energy in wholesale quantities to municipalities. The equipment essential to this work is constructed, or otherwise provided, and also operated on behalf of the associated municipalities by the Hydro-Electric Power Commission of Ontario.

The second division comprises the various operations involved in the local distribution by various municipal utility commissions, within their respective municipalities, of the electrical energy which they purchase from the Hydro-Electric Power Commission. The work performed by the various municipal commissions in their local distribution and sale of electrical energy is under the supervision of the Hydro-Electric Power Commission.

To convey a better understanding respecting the operations of Hydro undertakings, the financial results of the two divisions just mentioned have been combined and are shown in balance sheet form immediately following statement "A" in Section X of this Report. These balance sheets are headed: "Statement combining the Hydro-Electric Power Commission's plant and reserves with the assets, liabilities and reserves of the Hydro Municipal Utilities as at 31st December, 1923," and information respecting the several columns of figures is given in a statement immediately preceding these balance sheets.

The ultimate source of all revenue—whether for the larger operations of the Hydro-Electric Power Commission or for the smaller local operations of the municipalities—is, of course, the consumer. The revenue collected from the service supplied by the municipalities is divided so as to pay for the power purchased from the Commission and also for the expense incurred by the local utility in supplying its customers.

The portion of the total revenue remitted to the Hydro-Electric Power Commission—and this remittance appears in the financial statements as the total "Cost of Power"—must be sufficient to pay the municipality's proportion of the expenditures made by the Commission on behalf of the municipality, in connection with the particular system to which the municipality belongs, in order to provide, transmit and sell to the municipality the agreed-upon amount of power. This remittance to the Commission includes a sinking fund, and provision for depreciation for renewals reserve and also a contingency or insurance fund; the first mentioned reserve is providing for the liquidation of the capital investment, the latter two creating funds to provide for the renewing or rebuilding of any section of the various properties when necessary and to meet any unforeseen contingencies which may, from time to time, arise. The Hydro-Electric Power Commission of Ontario obtains its revenue from power service—that is, from the sale of electricity generated for and transmitted to the municipalities in bulk—and with this revenue operates and maintains its system and also creates the reserves just mentioned. Power service is given to each municipality "at cost."

All municipal Hydro utilities have current expenses to meet similar to the expenses of the Commission and have adopted the same sound financial procedure with respect to their operations. In other words, concurrently with the creation of funds to liquidate their debt to the Commission and provide



a reserve to rebuild generating, transforming, and transmission systems, the municipalities are taking similar action with respect to their local Hydro systems.

From the foregoing explanation it will be seen that the revenue obtained from Hydro light and power customers is sufficient to meet *all* operating and maintenance costs and capital charges in connection with (a) individual municipal investments and (b) collective municipal investments made through the agency of the Hydro-Electric Power Commission, and in addition there is being provided a fund for the purpose of renewing or rebuilding the properties—if necessary—of the whole Hydro installation from the generating stations to and including the municipal systems.

It will be profitable to consider, very briefly, the basic principle upon which the whole Hydro project is founded. This is set out in the contracts under which the municipalities enter into the partnership of which the Commission acts as trustee. The rates at which power is supplied to the various municipalities vary with the amount of power used and the distance from the source of supply. The entire capital cost of the various power developments and transmission systems are pro-rated annually to the connected municipalities, according to the relative use made of the lines and equipment. Each municipality is required to assume responsibility for just that portion of capital employed in delivering electrical energy to it, together with such expenses as are incident to that particular portion of the investment. Municipalities are not charged with expenses connected with equipment or plant from which they derive no benefit or are in no way interested. The entire annual expense of operation, maintenance, administration, interest and sinking fund and full depreciation are paid out of revenue collected from the municipal Hydro utilities through the medium of power bills rendered by the Commission. Power bills are rendered at an interim estimated rate each month during the year and a thirteenth bill—or credit memorandum as the case may be—is rendered at the end of the year, when the Commission's books are closed and the actual cost determined.\* There is no burden on the taxpayers or on non-users and no avenue through which losses, should they occur, could be absorbed, except by a direct charge to the contracting municipalities for power supplied. It should be noted that sinking fund and debenture payments are treated as operating expense and that, therefore, the municipalities are not only paying the interest on the investment, but are retiring the bonded debt from revenue and, in addition, are providing from revenue for the perpetuity of the system, an adequate reserve for contingency and depreciation purposes.

The results obtained by the annual adjustments of the Commission's capital investment, operating expenses and fixed charges, as they affect individual municipalities are clearly shown in the tables for the respective systems.

These financial statements are typical of others appearing in this section of the Commission's Annual Report, and if their significance is fully appreciated there can be no misconception of the relationship of the municipalities to the Commission's operations.

To illustrate further the foregoing explanatory comments a typical Operating Report is now submitted, viz., that of the Hydro-Electric Utility of the town of Chatham.

\*The financial year for the Commission accounts ends on October 31. The financial year for the Municipal accounts, however, ends on December 31, and the Municipal accounts are made up to this date, and so recorded in Section X.

## CHATHAM HYDRO SYSTEM

## OPERATING STATEMENT FOR THE YEAR 1924

## REVENUE

Revenue from Chatham Hydro customers for year . . . . . \$181,952.96

## EXPENSES

*Representative illustration of expenses incurred by the Hydro-Electric Power Commission on behalf of a municipality in connection with the supplying of its electrical energy. These data really show—as determined by annual adjustment—what it costs the Commission to supply the municipality with its power. See Annual Adjustment Statement, page 148, for the city of Chatham, as follows:*

Cost (proportionate share) of operation and maintenance expense of Niagara generating plants, transformer stations and transmission lines, together with administrative expenses . . . . .	\$18,230.82
Interest on Chatham's proportionate share of capital investment in generating plants, transformer stations and transmission lines . . . . .	48,261.88
Sinking fund (proportionate share) provided in respect of generating plants, transformer stations and transmission lines . . .	10,971.71
Renewal reserve (proportionate share) provided in respect of generating plants, transformer stations and transmission lines . . . . .	6,169.99
Contingency reserve (proportionate share) provided in respect of generating plants, transformer stations and transmission lines—a reserve created to meet any unforeseen contingency expense . . . . .	7,567.65
	<hr/> \$91,202.05

*Expenses incurred by a municipality through its utility commission in connection with the sale of electrical energy to consumers. Consult the section dealing with the Municipal Accounts:*

Operation, maintenance and administrative expenses, etc. ....	\$40,541.22
Interest and fixed charges on debenture debt. ....	22,073.16
Depreciation charge. ....	8,812.00
	<hr/>
	\$71,426.38
Total expenses charged against the revenue from customers of the Chatham system. ....	\$162,628.43
	<hr/>
Net surplus for the year. ....	<u>\$19,324.53</u>

The city of Chatham situated at the western end of the Niagara transmission lines, 194 miles distant from the source of power, Niagara Falls, Ontario, was connected to the system in February, 1915. The Hydro utility of this municipality has fulfilled every monetary obligation imposed upon it by the Power Commission Act. With the close of the tenth year of operation its financial condition as set forth in the municipalities' balance sheet (see Statement "A" in Section X) stands as follows:

Total assets, \$553,432.92; total liabilities, \$303,434.26; reserves and surplus, \$249,998.66. The last mentioned figure comprises the following items:

Debenture payments. ....	\$35,404.00
Reserve for renewals of local plant. ....	58,316.16
Sinking fund equity in Hydro-Electric Power Commission system. ....	54,183.48
Surplus. ....	102,095.02
	<hr/>
	<u>\$249,998.66</u>

In addition to these reserves the Hydro-Electric Power Commission of Ontario has collected from this utility during the period under review the sum of \$50,274.91 which represents Chatham's proportionate share of renewals reserve retained by the Commission for purposes as hereinbefore mentioned.



## HYDRO-ELECTRIC POWER

## Detailed Statement of Assets

## POWER

## ASSETS

## Niagara System:

## Generating plants:

Queenston-Chippawa development.....	\$73,328,515.03
Ontario Power development.....	22,016,473.36
Electrical Power development.....	12,002,553.79

## Transmission lines:

Right-of-way.....	6,687,729.27
Steel-tower and wood-pole lines.....	14,286,058.62

Transformer stations.....	19,004,008.79
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\$147,325,338.86

## Distribution lines:

Rural power districts.....	\$868,933.44
Rural lines.....	233,336.12
Municipal.....	42,371.36

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1,144,640.92

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\$148,469,979.78

## Georgian Bay System:

## Generating plants:

Big Chute development.....	\$654,718.55
Eugenia Falls development.....	1,135,108.99
Wasdell development.....	148,148.04

Transmission lines.....	1,818,985.87
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Transformer stations.....	570,946.54
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\$4,327,907.99

## Distribution lines:

Rural power districts.....	\$52,368.56
Rural lines.....	3,254.87

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55,623.43

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4,383,531.42

## Muskoka System:

Generating plant.....	\$321,565.67
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Transmission lines.....	54,752.35
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Transformer stations.....	10,996.95
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387,314.97

## St. Lawrence System:

Transmission lines.....	\$519,940.74
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Transformer stations.....	499,728.09
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\$1,019,668.83

Rural power districts.....	28,186.24
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1,047,855.07

## Rideau System:

Generating plants.....	\$759,433.09
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Transmission lines.....	261,698.94
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Transformer stations.....	60,781.37
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1,081,913.40

## Thunder Bay System:

Nipigon generating plant.....	\$7,598,890.08
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Transmission lines.....	1,471,879.01
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Transformer stations.....	265,766.04
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9,336,535.13

## Ottawa System:

Meters, etc.....	\$2,882.97
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Rural power districts.....	27,383.01
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30,265.98

Bonnechere River storage system.....	34,165.74
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Carried forward..... \$164,771,561.49

## COMMISSION OF ONTARIO

and Liabilities, October 31, 1924

## UNDERTAKINGS

		LIABILITIES	
Provincial Treasurer:			
Cash advances for Niagara and other systems.....	\$55,224,519.68		
Cash advances for Queenston-Chippawa development....	68,446,987.31		
Portion of interest on investment in Thunder Bay (Nipigon) system payment of which is deferred.....	567,621.58		
			\$124,239,128.57
Unexpended portion of the sum appropriated by the Legislature to cover expenditures by the Commission on account of the Province.....			153,647.84
Debentures issued by the Commission and guaranteed by the Province:			
4% debentures due 1957 issued in purchase of the Ontario Power Company of Niagara Falls.....	\$8,000,000.00		
Interest accrued thereon.....	80,000.00		
		\$8,080,000.00	
6% debentures due 1941 issued for the purpose of retiring the 1921 issue of the Ontario Power Company of Niagara Falls.....	\$3,200,000.00		
Interest accrued thereon.....	67,856.16		
		3,267,856.16	
6% debentures due 1940 issued in purchase of the Toronto Power Company, Limited.....	\$413,200.00		
Interest accrued thereon.....	10,330.00		
		423,530.00	
6% debentures due 1940 issued in purchase of certain electrical power equipment of the Toronto and York Radial Railway.....	\$205,800.00		
Interest accrued thereon.....	5,145.00		
		210,945.00	
5% debentures due 1939 issued for the purpose of retiring the 1924 issue of the Toronto Power Company, Limited...	\$4,000,000.00		
Interest accrued thereon.....	75,000.00		
		4,075,000.00	
4% debentures due 1958 issued in purchase of distribution lines in Essex county..	\$200,000.00		
Interest accrued thereon.....	3,333.33		
		203,333.33	
5% debentures due 1928 issued in purchase of distribution lines in Essex county..	\$26,000.00		
Interest accrued thereon.....	541.67		
		26,541.67	
4% debentures due 1958 issued in purchase of distribution lines in vicinity of Thorold..	\$100,000.00		
Interest accrued thereon.....	1,666.67		
		101,666.67	
			16,388,872.83

Carried Forward..... \$140,781,649.24

## HYDRO-ELECTRIC POWER

## Detailed Statement of Assets

## POWER UNDER

## ASSETS

Brought forward.....		\$164,771,561.49	
Service Buildings and Equipment:			
Service building and equipment, Toronto.....	\$476,328.47		
Equipment of storehouse and garage, Hamilton.....	9,116.81		
Pole yard and equipment, Cobourg.....	20,245.79		
			\$505,691.07
Office Buildings:			
On University avenue, Toronto.....	\$505,593.55		
On Elm street and Centre avenue, Toronto.....	163,231.01		
			668,824.56
Office Furniture and Equipment:			
At Toronto office.....	\$93,071.18		
At Hamilton office.....	2,111.09		
At Electrical Inspection office.....	5,703.98		
Library.....	1,650.20		
			102,536.45
Automobiles and trucks.....			11,283.15
Inventories:			
Construction and maintenance, tools and equipment.....	\$385,170.60		
Construction material and sundry supplies.....	634,061.59		
Maintenance material and supplies.....	308,659.27		
Stationery and office supplies.....	36,273.73		
			1,364,165.19
Sinking funds for repayment of advances by the Province of Ontario:			
Invested in securities of the Province of Ontario, which are:			
(a) Deposited with Provincial Treasurer—par value.....	\$2,640,000.00		
(b) In the hands of the Commission.....	1,172,000.00		
Sinking funds for repayment of debentures, bonds and debenture stock issued and assumed by the Commission and guaranteed by the Province of Ontario:			
Invested in securities of the Province of Ontario, which are:			
(a) In the hands of the Commission—par value.....	\$1,833,500.00		
(b) Deposited with Canada Trust Co.—par value....	30,500.00		
Interest accrued thereon.....	90,181.38		
			5,766,181.38
Insurance Funds:			
Invested in securities of the Dominion of Canada—par value.....	\$650,000.00		
Invested in securities of the Province of Ontario—par value.....	28,000.00		
Interest accrued thereon.....	5,808.33		
			683,808.33
Staff Pension Funds:			
Invested in guaranteed mortgage certificates of Canada Trust Company—par value.....	\$200,000.00		
Interest accrued thereon.....	1,420.00		
			201,420.00
Reserve Funds:			
Invested in securities of the Dominion of Canada—par value.....	\$1,450,000.00		
Invested in securities of the Province of Ontario—par value.....	124,000.00		
Invested in securities of the Commission guaranteed by the Province of Ontario—par value.....	500,000.00		
Interest accrued thereon.....	48,325.83		
			2,122,325.83
Premiums (less discounts) on above investments less amounts written off.....			105,973.15
Carried Forward.....			\$176,303,770.60



## COMMISSION OF ONTARIO

## and Liabilities—Continued

## TAKINGS—Continued

## LIABILITIES

Brought forward.....			\$140,781,649.24
Bonds and debenture stock assumed by the Commission and guaranteed by the Province:			
First mortgage 5% gold bonds due 1943, of the Ontario Power Company of Niagara Falls.....	\$8,852,000.00		
Interest accrued thereon.....	110,650.00		
		\$8,962,650.00	
First mortgage 5% gold bonds, due 1945, of the Ontario Transmission Company, Limited.....	\$1,538,000.00		
Interest accrued thereon.....	38,450.00		
		1,576,450.00	
Guaranteed 4½% debenture stock, due 1941, of the Toronto Power Company, Limited.....	\$11,261,023.84		
Interest accrued thereon.....	253,373.04		
		11,514,396.88	
First mortgage 5% gold bonds, due 1933, of the Electrical Development Company of Ontario, Limited.....	\$3,972,500.00		
Interest accrued thereon.....	32,949.17		
		4,005,449.17	
			26,058,946.05
Outstanding share capital of the Electrical Development Company of Ontario, Limited.....			1,100.00
Other Debentures assumed:			
In respect of purchase of lines at Streetsville.....	\$3,717.67		
Interest accrued thereon.....	92.94		
		\$3,810.61	
In respect of purchase of Muskoka Power development.....	\$37,108.66		
Interest accrued thereon.....	1,370.91		
		38,479.57	
			42,290.18
Accounts payable.....			835,905.96
Bond interest coupons overdue but not presented.....			74,378.50
Central Ontario System:			
Current account.....			274,992.00
Insurance Department:			
Outstanding claims and awards.....	\$613,163.47		
Surplus.....	67,754.04		
			680,917.51
Reserve for Staff Pensions.....			305,314.38
Balances due to municipalities in respect of amounts paid by them to October 31, 1924, in excess of the cost of power supplied to them as provided to be paid under section 23 of the Act:			
Niagara system.....	\$553,224.59		
Georgian Bay system.....	68,339.95		
Muskoka system.....	364.51		
St. Lawrence system.....	16,462.74		
Rideau system.....	8,141.60		
Ottawa system.....	3,220.86		
			649,754.25
Carried forward.....			\$169,705,248.07

## HYDRO-ELECTRIC POWER

## Detailed Statement of Assets

## POWER UNDER

## ASSETS

Brought forward.....		\$176,303,770.60	
Cash:			
In banks.....	\$867,913.18		
In hands of employees as advances on account of expenses.....	154,457.71		
In bank to pay bond interest coupons overdue but not presented.....	366,201.54		
Cash on deposit with trust companies.....	97,388.89		
Sinking fund moneys on deposit with trust companies....	4,087.47		
			1,490,048.79
Accounts Receivable:			
Due by municipalities and sundry customers in respect of construction work and supply sales.....	\$528,461.61		
Less: Reserve for doubtful accounts.....	6,702.39		
			521,759.22
Due by municipalities and sundry customers in respect of power accounts.....	\$1,906,740.74		
Less: Reserve for doubtful accounts.....	41,478.39		
			1,865,262.35
“Sinking fund and interest” accounts owing in respect of rural lines.....			12,479.16
Due by town of Renfrew for water from Bonnechere Storage system for power purposes.....			12,830.19
Claim against Dominion Government.....			72,334.46
Balances due by municipalities in respect of the costs of power supplied to them, as provided to be paid under section 23 of the Act:			
Niagara system.....	\$258,465.69		
Georgian Bay system.....	35,879.20		
Muskoka system.....	128.45		
St. Lawrence system.....	11,404.96		
Rideau system.....	1,787.51		
			307,665.81
Amount recoverable out of future revenues from the city of Port Arthur and other power customers on the Thunder Bay system—being that portion of the Nipigon Development interest deferred as at October 31, 1924.....			620,818.33
Work in progress:			
Expenditure on account of various systems chargeable upon completion to:			
Capital construction.....	\$75,468.21		
Operating and maintenance expenses.....	57,624.67		
			133,092.88
Insurance unexpired.....			62,106.65
Discount on debentures issued by the Commission—less amounts written off:			
On debentures 3,200,000 maturing 1941.....	\$130,242.81		
On debentures 4,000,000 maturing 1939.....	95,709.60		
			225,952.41
Carried forward for power undertakings.....			\$181,628,120.85

## COMMISSION OF ONTARIO

## and Liabilities—Continued

## TAKINGS—Continued

## LIABILITIES

Brought forward.....		\$169,705,248.07
Reserves for Sinking Fund:		
Niagara system.....	\$5,285,257.90	
Niagara rural lines.....	43,092.66	
Georgian Bay system.....	269,150.99	
Georgian Bay rural lines.....	230.91	
Muskoka system.....	13,789.05	
St. Lawrence system.....	62,120.96	
Rideau system.....	9,298.04	
Ottawa system.....	1,248.12	
Bonnechere Storage system.....	5,512.81	
		5,689,701.44
Reserves for Renewals:		
Niagara system.....	\$5,047,947.98	
Georgian Bay system.....	436,214.27	
Muskoka system.....	21,905.46	
St. Lawrence system.....	112,256.67	
Rideau system.....	58,031.54	
Ottawa system.....	2,072.55	
	\$5,678,428.47	
Service buildings.....	161,947.03	
Office buildings.....	17,982.86	
		5,858,358.36
Reserves for contingencies:		
Niagara system.....	\$643,699.89	
Georgian Bay system.....	81,602.55	
Muskoka system.....	6,587.61	
St. Lawrence system.....	32,093.33	
Rideau system.....	16,616.89	
Thunder Bay system.....	52,560.09	
		833,160.36
Surplus arising from departmental operations in service buildings.....		1,082.11
Balance at credit of interest account.....		10,565.05
Contingent liabilities:		
In respect of contracts entered into for works under construction.....	\$3,148,103.98	
Carried forward for power undertakings.....		\$182,098,115.39



## HYDRO-ELECTRIC POWER

## Detailed Statement of Assets

## POWER UNDER

## ASSETS

Brought forward for Power Undertakings..... \$181,628,120.85

## RADIAL RAILWAY

Sandwich, Windsor and Amherstburg Railway:		
Road and equipment.....	\$3,755,132.51	
Materials and supplies.....	115,860.51	
Accounts receivable.....	\$5,537.72	
Cash in banks:		
In the general bank account of the Com-		
mission at Toronto.....	92,899.28	
At Windsor.....	7,426.17	
		105,863.17
Insurance, taxes and expenses prepaid....	\$5,446.24	
Valuation and other expenses re purchase of		
plant assets of the railway and reissue of		
bonds—less 46% written off.....	11,215.41	
		16,661.65

————— \$3,993,517.84

Guelph Radial Railway:		
Road and equipment.....	\$410,919.53	
Materials and supplies.....	7,331.96	
Accounts receivable.....	\$1,026.64	
Cash in banks:		
In the general bank account of the		
Commission at Toronto.....	16,788.67	
At Guelph.....	314.78	
		18,130.09
Insurance prepaid.....	\$830.08	
Valuation and other expenses re purchase		
of plant assets by the Commission—		
less two-fifths written off.....	1,537.80	
		2,367.88
Due by the city of Guelph:		
Operating deficit for the year ending		
October 31, 1924—as per operat-		
ing account.....	\$20,932.61	
Less—Instalment of principal and		
interest payable to the city of		
Guelph, November 1, 1924, under		
the terms of the purchase agree-		
ment.....	5,850.00	
		15,082.61
		453,832.07
Carried forward .....		\$186,075,470.76

## COMMISSION OF ONTARIO

## and Liabilities—Continued

## TAKINGS—Continued

## LIABILITIES

Brought forward for Power Undertakings..... \$182,098,115.39

## UNDERTAKINGS

In respect of the Sandwich, Windsor and Amherstburg Railway:

Debentures issued by the Commission and guaranteed by the Province:

4½% debentures due 1960, issued in purchase of the railways..... \$2,039,000.00  
 4½% debentures due 1960, issued for the purpose of making extensions and betterments..... 61,000.00  
 6% debentures due 1961, issued for the purpose of making extensions and betterments..... 900,000.00

\$3,000,000.00

Interest accrued thereon..... 25,875.00

\$3,025,875.00

Bank of Montreal—advances (Secured by hypothecation of \$966,205 interim Hydro-Radial debentures of the Commission).....

825,000.00

Accounts payable and accrued charges \$9,926.39

Provision for unredeemed tickets..... 7,807.70

Deposits to cover cost of customers' sidings..... 6,095.47

23,829.56

Premium (less discount) on sales of debentures—less portion written off.....

61,165.63

Reserve for renewal of road and equipment..... 57,647.65

Contingent liability:

First mortgage 5% gold bonds of the Windsor and Tecumseh Electric Railway Company due 1927 and payable by the Detroit United Railways under the terms of the purchase agreement dated January 14, 1920.....

\$189,000.00

3,993,517.84

In respect of the Guelph Radial Railway:

City of Guelph—purchase price of the railway payable thereto, in half-yearly instalments, under the terms of the agreement dated December 8, 1920...

\$150,000.00

Less—Six instalments paid thereon... 15,710.80

\$134,289.20

6% debentures of the Commission due 1931, issued for the purpose of making extensions and betterments.....

158,000.00

Bank of Montreal—advances (Secured by hypothecation of \$150,000 debentures of the city of Guelph).....

140,000.00

Accounts payable and accrued charges... \$4,567.91

Provision for unredeemed tickets..... 1,264.16

5,832.07

Reserve—created by payment of instalments on the purchase price out of the revenue of the road and assessments against the city of Guelph.....

15,710.80

453,832.07

Carried forward..... \$186,545,465.30

## HYDRO-ELECTRIC POWER

## Detailed Statement of Assets

## RADIAL RAILWAY

## ASSETS

Brought forward for Power and Radial Railway Undertakings... \$186,075,470.76

## Toronto and York Radial Railways:

## Radial Railway properties:

Metropolitan division (including Schomberg)—Road and equipment.....	\$2,248,161.44	
Scarboro division—Road and equipment.....	333,683.54	
Mimico division—Road and equipment.....	409,923.13	
		2,991,768.11
Materials and supplies.....		133,625.45
Mortgages receivable, with accrued interest	\$121,082.89	
Accounts receivable (less reserve for doubtful accounts).....	7,215.96	
Cash in banks:		
In the general bank account of the Commission at Toronto.....	83,703.43	
In sundry branch banks.....	4,410.18	
		216,412.46
Insurance and taxes prepaid.....	\$13,427.48	
Valuation and other expenses incidental to the purchase of the railways, less two-fifths written off.....	25,222.17	
		38,649.65
Due by the city of Toronto:		
Operating deficit for the period up to October 31, 1923.....	\$176,627.43	
Interest on the above amount for the year ending October 31st, 1924..	8,831.37	
Operating deficit for the year ending October 31, 1924, as per operating account.....	248,541.34	
		\$434,000.14
Less: Amount owing to the city of Toronto in respect of the operation of the city section of the Metropolitan division in the twenty-three months ending October 31, 1922, \$101,720.55 with interest thereon for the two years ending October 31, 1924, \$10,172.06.....	111,892.61	
		322,107.53
		3,702,563.20

## Port Credit to St. Catharines Radial Railway:

Expended upon purchase of right-of-way.....	\$71,478.69	
Construction materials purchased.....	117,510.09	
Surveying, engineering, administrative expenses and interest.....	176,899.50	
		365,888.28

## Toronto to Port Credit radial railway:

Expended upon purchase of right-of-way.....	\$424,223.98	
Surveying, engineering, administrative expenses and interest.....	179,882.28	
		604,106.26

Total Assets for Both Power and Radial Railway Undertakings... \$190,748,028.50



## COMMISSION OF ONTARIO

## and Liabilities—Continued

## UNDERTAKINGS—Continued

## LIABILITIES

Brought forward for Power and Radial Railway Undertakings. . . . \$186,545,465.30

## In respect of Toronto and York Radial Railways:

Debentures issued by the Commission and guaranteed by the Province:

6% debentures due 1940, issued in purchase of the Metropolitan, Scarborough and Mimico radial railway divisions. . . . . \$2,375,000.00

Interest accrued thereon. . . . . 59,375.00

2,434,375.00

Bank of Montreal—advances (Secured by hypothecation of \$600,000 debentures of the city of Toronto and \$650,000 interim Hydro-Radial debentures of the Commission). . . . .

1,250,000.00

Accounts payable and accrued charges. . . . \$7,103.98

Provision against claims for injuries and damages. . . . . 7,231.96

Provision for unredeemed tickets. . . . . 3,852.26

18,188.20

3,702,563.20

## Contingent Liabilities in respect of Radial Railways:

On contracts entered into for works under construction. . . . . \$94,267.00

## In respect of the Port Credit to St. Catharines Radial Railway:

Bank of Montreal—advances (Secured by hypothecation of \$1,200,000 Hydro radial debentures, being part of issue of \$11,360,363 guaranteed by the Province of Ontario). . . . . 500,000.00

Total Liabilities for Both Power and Radial Railway Undertakings. . . \$190,748,028.50

## NIAGARA

Including the Queenston-Chippawa development and the Plants and Works formerly  
Company,

## Operating Account for Year

## COST OF OPERATION AS PROVIDED FOR UNDER SECTIONS 6C AND 23 OF THE ACT

Power purchased.....	\$332,419.23	
Cost of operating and maintaining generating plants, transformer stations and transmission lines, including the proportion of administrative expenses chargeable to the operation of the system.....	2,421,777.07	
Interest:		
On advances by the province for construction of Queenston- Chippawa developments, transformer stations and trans- mission lines.....	\$5,248,827.14	
On bonds issued and assumed by the Commission and guaranteed by the province.....	2,220,817.03	7,469,644.17
Provision for renewals of Generating plants.....	\$414,786.15	
Transformer stations and transmission lines.....	457,945.90	872,732.05
Provision for contingencies:		
By charges against municipalities.....	\$744,758.26	
By charges included in the cost of power to Hydro radial railways.....	8,100.67	752,858.93
Provision for sinking funds for repayment of the cash advances of the province to the Commission and for retirement of the bonds issued and assumed by the Commission:		
By charges against municipalities.....	\$1,086,276.72	
By charges against companies.....	575,177.56	
By charges included in cost of power to Hydro radial railways.....	14,012.87	1,675,467.15
		<u>\$13,524,898.60</u>

## NIAGARA SYSTEM—

Operating Account for Year Ending October 31, 1924,  
For detail report see

Power purchased from Commission.....	\$116,214.99
Costs of operating and maintaining transmission lines and equipment.....	71,188.04
Interest on capital investment.....	42,676.90
Provision for renewals of lines and equipment.....	27,769.54
Provision for sinking fund for repayment of cash advances.....	12,687.34
	<u>\$270,536.81</u>

**SYSTEM**

owned by the Ontario Power Company of Niagara Falls and The Toronto Power Limited.

Ending October 31, 1924

**REVENUE FOR PERIOD**

Collected from municipalities.....	\$9,155,478.47	
Power sold to private companies.....	3,878,149.88	
Power supplied to Hydro radial railways.....	129,735.41	
	<u>          </u>	\$13,163,363.76
Deduct:		
Amounts collected from certain municipalities in excess of the sums required to be paid by them for power supplied in the year.....	\$488,398.82	
Less:		
Amounts due by certain municipalities, being the difference between sums paid and the cost of power supplied to them in the year.....	210,392.22	
	<u>          </u>	278,006.60
Revenue.....		<u>\$12,885,357.16</u>
Cost to the Commission (including sinking fund of \$575,177.56 for repayment of the investment in works) of the power delivered to customers under flat rate contracts, in excess of the revenue received from them—already written off through contingency reserve.....		639,541.44
		<u><u>\$13,524,898.60</u></u>

**RURAL POWER DISTRICTS**

included in above account of Niagara System  
pages 160 to 163

Revenue collected from rural power districts.....		\$372,833.09
Add—Deficit on operation of certain rural power districts.....	\$2,565.74	
Deduct—Surplus on operation of certain rural power districts.....	104,862.02	
	<u>          </u>	102,296.28
		<u><u>\$270,536.81</u></u>



## NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under by the Commission from each Municipality on account of such cost—and ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased from private corporations and other sources	Share of Operating, maintenance and administrative expenses
	To June 1, 1924	To Oct. 31, 1924				
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.
Acton.....	37.00	35.00	137,295.41	416.2	219.51	2,993.34
Agincourt.....	51.00	40.00	3,141.42	38.5	1,004.12	64.73
Ailsa Craig.....	49.00	49.00	56,528.19	125.9	66.40	1,333.44
Alvinston.....	95.95	85.00	55,782.80	75.9	40.03	1,368.50
Ancaster twp.....	25.81	25.81	68,587.58	267.0	140.82	1,423.28
Aylmer.....	50.00	46.00	104,597.83	258.7	136.44	2,437.57
Ayr.....	50.00	43.00	27,728.39	82.0	43.25	658.44
Baden.....	36.00	36.00	72,744.28	233.2	123.00	1,908.93
Barton twp.....	29.02	29.02	76,762.42	283.9	149.74	1,185.04
Beachville.....	37.00	36.00	120,090.57	410.7	216.61	2,929.64
Belle River.....	92.00	60.00	23,689.76	59.2	31.22	663.61
Blenheim.....	50.00	48.00	100,431.45	284.3	149.95	2,479.20
Blyth.....	.....	91.20	24,124.72	14.3	7.54	330.49
Bolton.....	60.00	55.00	58,409.12	120.8	63.72	801.18
Bothwell.....	55.00	50.00	59,129.82	153.9	81.18	1,789.27
Brampton.....	28.00	30.00	354,976.31	1,267.6	668.55	8,168.39
Brantford.....	25.00	25.00	1,919,781.99	7,307.4	3,854.05	31,998.60
Brantford twp.....	25.00	25.00	42,266.04	161.0	84.91	688.21
Brigden.....	70.00	78.00	37,736.64	55.7	29.38	782.81
Brussels.....	.....	76.16	27,987.58	21.7	11.45	448.56
Burford.....	60.00	56.00	33,276.68	75.4	39.77	930.13
Burgessville.....	58.00	55.00	14,789.22	37.4	19.73	544.88
Caledonia.....	29.00	29.00	41,373.75	152.9	80.64	910.81
Chatham.....	31.00	31.00	933,470.40	3,363.4	1,773.91	16,456.91
Chippawa.....	25.00	30.00	24,654.15	102.4	54.00	444.60
Clifford.....	100.50	100.50	14,330.99	14.4	7.59	528.04
Clinton.....	50.00	50.00	119,698.70	312.6	164.87	2,616.85
Comber.....	50.00	48.00	54,816.36	133.2	70.25	1,067.48
Courtright.....	97.30	97.30	18,074.48	18.8	9.91	314.74
Dashwood.....	62.00	62.00	24,507.11	43.3	22.84	672.11
Delaware.....	75.00	70.00	6,152.41	14.8	7.81	245.03
Dereham twp.....	37.00	37.00	31,396.18	95.3	50.26	1,413.83
Dorchester.....	50.00	48.00	16,217.85	49.2	25.95	778.59
Drayton.....	70.00	68.00	35,986.47	58.1	30.65	1,042.32
Dresden.....	38.00	38.00	66,113.25	210.5	111.02	1,931.19
Drumbo.....	50.00	45.00	11,991.88	31.7	16.72	446.28
Dublin.....	70.00	70.00	16,095.31	31.1	16.40	516.45
Dundas.....	23.00	23.00	350,038.58	1,471.9	776.31	6,074.52
Dunnville.....	42.00	38.00	149,908.44	363.1	191.50	2,135.15
Dutton.....	44.00	43.00	47,615.38	148.0	78.05	1,761.69
Elmira.....	38.00	34.00	181,167.21	600.9	316.92	3,957.47
Elora.....	40.00	38.00	94,503.78	271.9	143.40	2,241.62
Embro.....	70.00	68.00	28,246.02	51.8	27.32	1,139.32
Erieau.....	.....	84.28	6,110.95	4.2	2.21	66.01
Essex.....	67.61	49.00	74,761.59	158.8	83.76	1,434.18

## SYSTEM—Continued

## COST OF POWER

Section 23 of the Act) of Power supplied to it by the Commission—the amount received the amount remaining to be credited or charged to each Municipality upon of power supplied to it in the year ending October 31, 1924

operating costs and fixed charges				Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality and rural power district	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Interest	Renewals	Contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,954.04	1,030.47	936.45	1,623.09	13,756.90	15,080.12	1,323.22	.....
159.92	39.19	86.62	.....	1,354.58	1,763.60	409.02	.....
2,868.89	500.67	283.28	835.51	5,888.19	6,167.00	278.81	.....
2,892.38	572.22	170.78	154.43	5,198.34	7,277.97	2,079.63	.....
3,657.68	422.26	600.75	543.25	6,788.04	6,892.32	104.28	.....
5,204.11	828.44	582.08	1,076.89	10,265.53	12,486.53	2,221.00	.....
1,332.15	198.77	184.50	470.79	2,887.90	3,879.56	991.66	.....
3,540.23	524.74	524.70	981.02	7,602.62	8,394.30	791.68	.....
4,086.84	497.00	638.77	577.63	7,135.02	8,238.05	1,103.03	.....
6,054.18	832.25	924.08	1,479.41	12,436.17	15,021.08	2,584.91	.....
1,188.20	185.85	133.20	120.45	2,322.53	4,664.07	2,341.54	.....
4,931.65	737.17	639.68	1,233.69	10,171.34	13,959.47	3,788.13	.....
541.98	106.83	32.18	29.09	1,048.11	1,305.68	257.57	.....
2,867.56	519.65	271.80	939.40	5,463.31	7,046.20	1,582.89	.....
2,976.62	487.06	346.28	1,074.66	6,755.07	8,140.36	1,385.29	.....
17,739.87	2,374.44	2,852.10	4,657.38	36,460.73	38,340.77	1,880.04	.....
94,720.80	10,854.91	16,441.65	19,967.34	177,837.35	182,685.66	4,848.31	.....
2,140.60	238.76	362.25	501.09	4,015.82	4,026.05	10.23	.....
1,930.46	379.73	125.33	712.14	3,959.85	4,147.72	187.87	.....
737.31	141.39	48.82	44.15	1,431.68	1,652.67	220.99	.....
1,635.17	279.42	169.65	425.82	3,479.96	4,397.62	917.66	.....
763.68	123.96	84.15	189.64	1,726.04	2,146.93	420.89	.....
2,117.97	267.86	344.03	472.43	4,193.74	4,435.02	241.28	.....
48,261.88	6,169.99	7,567.65	10,971.71	91,202.05	104,582.91	13,380.86	.....
1,307.79	144.66	230.40	296.77	2,478.22	2,765.94	287.72	.....
525.48	102.64	32.40	29.30	1,225.45	1,444.68	219.23	.....
6,087.16	984.57	703.35	1,387.80	11,944.60	15,173.93	3,229.33	.....
2,793.54	464.78	299.70	814.15	5,509.90	6,533.40	1,023.50	.....
828.25	168.60	42.30	38.26	1,402.06	1,833.26	431.20	.....
1,258.83	235.70	97.43	499.82	2,786.73	2,687.16	99.57	.....
307.21	52.32	33.30	104.27	749.94	1,072.26	322.32	.....
1,642.82	237.45	214.43	193.91	3,752.70	3,525.14	277.56	.....
830.81	122.29	110.70	196.06	2,064.40	2,416.90	352.50	.....
1,844.44	351.47	130.73	496.05	3,895.66	4,012.93	117.27	.....
3,374.37	482.30	473.63	1,043.26	7,415.77	8,000.62	584.85	.....
580.42	93.31	71.33	144.40	1,352.46	1,519.92	167.46	.....
828.05	149.55	69.98	260.68	1,841.11	2,179.88	338.77	.....
17,558.85	1,978.93	3,311.78	4,287.41	33,987.80	34,117.85	130.05	.....
7,839.51	1,293.58	816.98	1,226.51	13,503.23	14,688.62	1,185.39	.....
2,437.95	353.84	333.00	648.29	5,612.82	6,451.42	838.60	.....
9,295.37	1,284.62	1,352.02	2,155.93	18,362.33	21,740.58	3,378.25	.....
4,764.56	738.01	611.78	1,216.51	9,715.88	10,643.35	927.47	.....
1,389.77	267.91	116.55	437.36	3,378.23	3,572.91	194.68	.....
114.60	20.52	9.45	8.55	221.34	356.78	135.44	.....
3,920.56	675.74	357.30	1,128.18	7,599.72	9,523.14	1,923.42	.....

## NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under by the Commission from each Municipality on account of such cost—and ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased from private corporations and other sources	Share of Operating, maintenance and administrative expenses
	To June 1, 1924	To Oct. 31, 1924				
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.
Etobicoke twp.....	30.00	28.00	267,251.69	952.9	502.58	5,753.89
Exeter.....	55.00	48.00	106,485.68	267.0	140.82	2,514.82
Fergus.....	40.00	36.00	95,189.50	273.6	143.78	2,115.53
Ford City.....	40.00	38.00	426,502.21	1,419.8	748.83	13,090.00
Forest.....	55.00	55.00	68,503.69	152.2	80.28	1,900.71
Galt.....	28.00	28.00	1,241,190.70	4,741.8	2,500.91	23,973.78
Georgetown.....	38.00	38.00	219,231.76	619.7	326.84	4,390.48
Glencoe.....	70.00	65.00	53,783.93	93.1	49.10	1,514.69
Goderich.....	57.00	55.00	329,704.31	759.1	400.37	6,561.48
Grantham twp.....	17.00	17.00	49,483.09	100.0	52.74	1,046.43
Granton.....	55.00	55.00	23,911.18	51.7	27.27	795.11
Guelph.....	27.00	27.00	1,433,541.64	5,737.6	3,026.11	27,950.39
Hagersville.....	32.00	32.00	228,694.13	776.9	409.75	4,378.97
Hamilton.....	24.00	24.00	5,981,774.20	23,069.1	12,167.04	95,487.34
Harriston.....	50.00	50.00	91,893.51	225.9	119.14	2,639.23
Harrow.....	51.98	65.00	34,156.07	86.0	45.36	647.62
Hensall.....	75.00	65.00	36,567.18	68.6	36.19	897.46
Hespeler.....	30.00	30.00	186,081.96	672.5	354.69	3,793.45
Highgate.....	55.00	50.00	27,205.82	61.7	32.54	618.15
Humberstone.....		27.68	2,417.28	9.8	5.16	76.97
Ingersoll.....	30.00	30.00	394,996.21	1,489.5	785.60	9,001.14
Jarvis.....	48.09	48.09	28,234.67	60.9	32.12	483.60
Kingsville.....	53.00	53.00	98,931.88	237.3	125.16	2,431.66
Kitchener.....	27.00	27.00	2,514,726.38	9,818.9	5,178.66	46,317.66
Lambeth.....	70.00	70.00	21,533.56	51.8	27.32	772.69
Leamington.....	63.24	54.00	116,873.09	290.8	153.38	2,082.41
Listowel.....	40.00	40.00	155,084.93	439.1	231.58	3,854.81
London.....	25.00	25.00	4,731,993.72	18,418.9	9,714.45	73,411.18
London Railway Comm.....			373,541.31	1,204.6	635.33	22,797.22
Lucan.....	40.00	40.00	46,675.70	136.1	71.78	1,434.00
Lynden.....	45.00	43.00	49,723.63	135.9	71.67	1,054.10
Markham.....	65.00	60.00	52,778.21	93.0	49.05	882.59
Merlin.....	60.00	55.00	42,586.88	100.7	53.11	1,061.73
Merritton.....	20.00	20.00	117,827.14	567.4	299.25	2,289.03
Milton.....	32.00	32.00	313,793.62	1,056.3	557.11	8,276.82
Milverton.....	35.00	37.00	151,067.71	466.7	246.15	3,498.23
Mimico.....	30.00	30.00	278,025.98	1,010.0	532.69	5,420.03
Mitchell.....	37.00	37.00	95,990.06	298.7	157.54	2,366.42
Moorefield.....	75.00	75.00	22,084.72	35.6	18.77	886.92
Mount Brydges.....	70.00	60.00	12,969.95	31.2	16.46	701.94
Newbury.....	67.10	58.00	13,461.22	27.6	14.56	363.26
New Hamburg.....	38.00	38.00	117,692.44	365.0	192.51	3,093.70
New Toronto.....	30.00	30.00	731,229.36	2,604.0	1,373.39	14,438.32
Niagara Falls.....	18.00	18.00	1,075,262.67	5,508.0	2,905.01	16,081.25
Niagara-on-the-Lake.....	26.00	26.00	59,297.10	229.1	120.83	1,373.80



## SYSTEM—Continued

## COST OF POWER

Section 23 of the Act) of Power supplied to it by the Commission—the amount received the amount remaining to be credited or charged to each Municipality upon of power supplied to it in the year ending October 31, 1924

operating costs and fixed charges				Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality and rural power district	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Interest	Renewals	Contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
14,005.68	1,774.43	2,144.03	2,171.74	26,352.35	27,762.28	1,409.93	.....
5,398.00	895.51	600.75	1,287.92	10,837.82	13,864.93	3,027.11	.....
4,838.49	745.51	613.35	1,193.78	9,650.44	10,477.99	827.55	.....
22,428.53	2,994.83	3,194.55	5,699.40	48,156.14	55,625.19	7,469.05	.....
3,526.23	605.20	342.45	1,268.90	7,723.77	8,370.32	646.55	.....
62,738.48	7,804.19	10,669.05	15,869.81	123,556.22	137,053.75	13,497.53	.....
10,940.70	1,731.41	1,394.32	2,975.93	21,759.68	23,549.08	1,789.40	.....
2,783.58	518.49	209.48	189.42	5,264.76	6,330.88	1,066.12	.....
16,651.43	2,877.55	1,707.98	4,153.17	32,351.98	41,379.96	9,027.98	.....
2,349.40	447.00	225.00	740.06	4,860.63	3,621.27	.....	1,239.36
1,222.53	214.30	116.33	339.83	2,715.37	2,844.87	129.50	.....
72,811.00	8,585.81	12,909.60	17,968.00	143,260.91	154,915.75	11,654.84	.....
11,799.80	1,586.18	1,748.03	2,533.27	22,456.00	24,861.40	2,405.40	.....
305,690.84	37,203.04	51,905.48	76,106.00	578,559.74	558,601.84	.....	19,957.90
4,710.60	779.32	508.28	1,223.69	9,980.26	11,298.26	1,318.00	.....
1,797.93	286.80	193.50	497.00	3,468.21	4,851.98	1,383.77	.....
1,844.53	345.17	154.35	742.24	4,019.94	4,845.46	825.52	.....
9,369.90	1,232.47	1,513.12	2,431.65	18,695.28	21,687.65	2,992.37	.....
1,388.75	238.82	138.83	497.74	2,914.83	3,271.96	357.13	.....
130.44	14.56	22.05	26.15	275.33	272.18	.....	3.15
19,707.88	2,515.03	3,351.37	5,076.58	40,437.60	48,074.37	7,636.77	.....
1,302.47	210.23	137.03	123.91	2,289.36	2,929.45	640.09	.....
5,311.91	876.77	533.93	1,494.32	10,773.75	13,327.52	2,553.77	.....
127,695.74	15,436.04	22,092.53	31,818.88	248,539.51	270,859.95	22,320.44	.....
1,094.38	183.13	116.55	265.41	2,459.48	3,624.20	1,164.72	.....
6,205.43	1,000.44	654.30	1,724.69	11,820.65	17,384.38	5,563.73	.....
7,967.94	1,221.38	987.98	2,133.37	16,397.06	17,564.10	1,167.04	.....
238,977.04	29,099.08	41,442.53	59,894.07	452,538.35	460,473.12	7,934.77	.....
18,766.02	2,706.69	2,710.35	5,080.94	52,696.55	38,881.31	.....	13,815.24
2,339.74	360.77	306.23	819.19	5,331.71	5,444.30	112.59	.....
2,522.67	399.35	305.78	702.23	5,055.80	6,010.59	954.79	.....
2,720.24	503.17	209.25	274.07	4,638.37	5,892.01	1,253.64	.....
2,232.23	367.71	226.58	204.89	4,146.25	5,149.08	1,002.83	.....
6,357.96	563.29	1,276.66	1,283.26	12,069.45	11,348.82	.....	720.63
16,016.81	2,200.76	2,376.67	3,729.08	33,157.25	33,800.92	643.67	.....
7,833.20	1,126.40	1,050.08	1,816.53	15,570.59	16,707.05	1,136.46	.....
14,384.78	1,812.33	2,272.50	3,397.99	27,820.32	30,301.75	2,481.43	.....
4,671.83	712.63	672.07	1,317.97	9,898.46	11,050.95	1,152.49	.....
1,134.06	216.12	80.10	247.37	3,583.34	2,671.08	87.74	.....
636.84	110.30	70.20	254.70	1,790.44	2,048.02	257.58	.....
699.70	123.06	62.10	56.16	1,318.84	1,750.82	431.98	.....
5,776.64	869.66	821.25	1,608.85	12,362.61	13,869.03	1,506.42	.....
37,209.41	4,889.00	5,859.00	9,884.61	73,653.91	78,120.71	4,466.80	.....
57,270.28	4,645.59	12,393.00	12,053.74	105,348.87	99,144.82	.....	6,204.05
2,938.35	326.82	515.48	495.80	5,771.08	5,956.03	184.95	.....

## NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under by the Commission from each Municipality on account of such cost—and ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased from private corporations and other sources	Share of Operating, maintenance and administrative expenses
	To June 1, 1924	To Oct. 31, 1924				
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.
North York twp.....	35.00	35.00	61,027.64	200.0	105.48	2,705.61
Norwich.....	40.00	36.00	110,300.85	353.5	186.44	3,294.38
Oil Springs.....	40.00	35.00	89,561.03	265.0	139.77	2,091.90
Otterville.....	52.00	50.00	18,987.82	47.8	25.21	540.12
Palmerston.....	45.00	44.00	97,342.28	265.7	140.14	2,966.72
Paris.....	28.00	28.00	270,074.29	998.9	526.83	4,892.01
Parkhill.....	70.00	63.00	52,539.78	81.8	43.15	1,032.42
Petrolia.....	36.00	36.00	282,207.18	855.2	451.05	6,432.23
Plattsville.....	90.00	90.00	22,190.73	37.1	19.56	983.27
Point Edward.....	40.00	40.00	89,516.88	288.1	151.94	3,251.99
Port Colborne.....	27.00	27.00	131,840.12	534.5	281.91	4,020.78
Port Credit.....	35.00	32.00	61,981.83	213.9	112.82	1,845.38
Port Dalhousie.....	24.00	26.00	61,193.55	212.7	112.19	1,514.47
Port Dover.....	60.00	45.00	47,969.68	113.6	59.91	1,014.63
Port Robinson.....	20.00	20.00	6,590.45	24.9	13.13	107.08
Port Stanley.....	48.00	45.00	80,793.01	218.8	115.40	2,459.20
Preston.....	27.00	27.00	578,165.42	2,240.9	1,181.89	10,945.87
Princeton.....	75.00	75.00	16,020.26	28.1	14.83	449.37
Queenston.....	20.00	20.00	17,892.21	61.1	32.22	309.31
Ridgetown.....	45.00	40.00	96,981.83	274.4	144.72	2,565.80
Riverside.....	45.00	40.00	102,429.02	324.4	171.10	2,975.29
Rockwood.....	60.00	55.00	24,494.86	53.8	28.37	851.13
Rodney.....	48.00	48.00	27,568.34	72.4	38.18	954.50
St. Catharines.....	20.00	20.00	1,100,037.44	5,048.7	2,662.77	16,290.27
St. Clair Beach.....	75.00	50.00	15,238.68	43.9	23.16	468.95
St. George.....	40.00	40.00	31,587.21	77.7	40.99	733.66
St. Jacobs.....	40.00	40.00	15,059.81	46.1	24.31	566.79
St. Marys.....	35.00	35.00	256,654.17	828.7	437.07	7,618.96
St. Thomas.....	30.00	30.00	977,953.66	3,739.0	1,972.02	22,353.43
Sandwich.....	32.38	33.00	284,971.43	963.4	508.11	8,920.63
Sarnia.....	35.00	35.00	1,306,970.04	4,237.2	2,234.77	25,956.91
Scarboro twp.....	35.00	33.00	15,635.77	1,036.4	27,030.50	707.33
Seaford.....	40.00	40.00	141,814.77	407.5	214.92	3,221.32
Simcoe.....	34.00	31.00	171,730.58	566.6	298.83	3,490.77
Springfield.....	65.00	75.00	16,296.46	29.9	15.77	736.71
Stamford twp.....	20.00	20.00	129,766.84	636.1	335.49	2,753.54
Stouffville.....	70.00	70.00	44,450.05	79.9	42.14	456.93
Stratford.....	30.00	30.00	1,413,527.81	5,074.1	2,676.17	31,124.68
Strathroy.....	40.00	38.00	189,462.29	557.0	293.77	3,370.96
Streetsville.....			142,395.53	450.7	237.73	3,595.50
Sutton.....	70.00	70.00	25,526.58	53.9	28.42	1,153.39
Tavistock.....	37.00	43.00	77,724.13	210.2	110.86	1,878.25
Tecumseh.....	52.00	45.00	35,377.17	104.4	55.06	1,071.73
Thamesford.....	50.00	47.00	41,580.14	109.8	57.91	1,239.26
Thamesville.....	50.00	50.00	36,364.61	100.4	52.95	1,047.26

## SYSTEM—Continued

## COST OF POWER

Section 23 of the Act) of Power supplied to it by the Commission—the amount received the amount remaining to be credited or charged to each Municipality upon of power supplied to it in the year ending October 31, 1914

operating costs and fixed charges				Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality and rural power district	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Interest	Renewals	Contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,191.41	426.13	450.00	589.39	7,468.02	6,998.48	.....	469.54
5,507.72	803.07	795.38	1,399.05	11,986.04	13,548.87	1,562.83	.....
4,668.54	685.37	596.25	814.91	8,996.74	10,082.21	1,085.47	.....
980.18	159.43	107.55	224.62	2,037.11	2,447.46	410.35	.....
5,022.29	782.67	597.82	1,021.58	10,531.22	11,837.68	1,306.46	.....
13,226.78	1,578.18	2,247.53	2,889.98	25,361.31	28,030.12	2,668.81	.....
2,722.80	522.93	184.05	166.43	4,671.78	5,482.08	810.30	.....
14,582.38	2,127.76	1,924.20	3,300.74	28,818.36	35,535.92	4,717.56	.....
1,018.27	210.16	83.48	241.32	2,556.06	3,341.25	785.19	.....
4,685.76	642.59	648.23	1,009.33	10,389.84	11,558.92	1,169.08	.....
7,009.55	794.49	1,202.63	1,426.54	14,735.90	14,431.05	.....	304.85
3,186.48	426.16	481.28	743.33	6,795.45	7,405.60	610.15	.....
2,874.13	343.12	478.58	665.78	5,988.27	6,018.88	30.61	.....
2,432.66	395.30	255.60	231.15	4,389.25	5,992.49	1,603.24	.....
249.47	42.62	56.03	76.80	545.13	498.33	.....	46.80
3,916.11	653.19	492.30	1,175.89	8,812.09	10,060.84	1,248.75	.....
29,132.35	3,583.14	5,042.03	7,348.58	57,233.86	60,587.10	3,353.24	.....
777.94	150.08	63.23	218.71	1,674.16	2,106.87	432.71	.....
824.33	95.32	137.48	127.67	1,526.33	1,221.30	.....	305.03
4,941.79	761.96	617.40	1,264.81	10,296.48	11,774.54	1,478.06	.....
5,382.94	746.53	729.90	1,391.87	11,397.63	13,841.75	2,444.12	.....
1,201.95	218.67	121.05	357.60	2,778.77	3,122.30	343.53	.....
1,425.73	226.68	162.90	392.44	3,200.43	3,474.80	274.37	.....
58,597.16	5,215.72	11,359.58	11,693.39	105,818.89	105,849.59	30.70	.....
798.65	118.25	98.78	213.15	1,720.94	2,661.85	940.91	.....
1,546.85	254.52	174.83	436.45	3,187.30	3,109.29	.....	78.01
752.61	108.64	103.73	331.35	1,887.43	1,844.30	.....	43.13
12,342.68	1,820.41	1,864.58	3,430.85	27,514.55	29,006.30	1,491.75	.....
48,806.81	6,144.29	8,412.75	12,500.00	100,189.30	113,205.38	13,016.08	.....
15,114.97	1,989.85	2,167.65	1,960.20	30,661.41	31,539.56	878.15	.....
67,751.27	9,409.15	9,533.70	15,985.99	130,871.79	148,300.73	17,428.94	.....
724.88	193.38	2,331.90	178.28	31,166.27	35,416.11	4,249.84	.....
6,472.58	1,107.97	916.88	1,993.53	13,927.20	16,299.34	2,372.14	.....
8,560.34	1,126.10	1,274.85	1,558.94	16,309.83	18,539.51	2,229.68	.....
842.18	155.07	67.28	253.10	2,070.11	1,861.98	.....	208.13
6,878.98	605.84	1,431.23	1,454.29	13,459.37	12,847.47	.....	611.90
2,305.64	421.12	179.77	235.46	3,641.06	5,592.98	1,951.92	.....
72,033.74	9,392.35	11,416.73	18,481.28	145,124.95	152,223.50	7,098.55	.....
9,591.18	1,459.57	1,253.25	2,499.10	18,467.83	21,174.03	2,706.20	.....
7,337.25	1,045.30	1,014.09	1,945.45	15,175.32	17,367.87	2,192.55	.....
1,317.94	226.32	121.27	158.84	3,006.18	3,777.64	771.46	.....
3,961.35	627.73	472.95	1,349.13	8,400.27	8,321.71	.....	78.56
1,852.89	270.41	234.90	491.39	3,976.38	5,053.20	1,086.82	.....
2,086.54	340.25	247.05	613.57	4,584.58	5,360.32	775.74	.....
1,842.51	289.50	225.90	482.97	3,941.09	5,020.80	1,079.71	.....



## NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under by the Commission from each Municipality on account of such cost—and ascertainment (by annual adjustment) of the actual cost

Municipality or Rural Power District	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased from private corporations and other sources	Share of Operating, maintenance and administrative expenses
	To June 1, 1924	To Oct. 31, 1924				
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.
Thedford.....	110.00	80.00	33,386.41	40.8	21.52	756.12
Thorndale.....	70.00	70.00	22,185.27	42.0	22.15	843.41
Thorold.....	22.25	20.00	144,204.06	665.9	351.20	2,780.98
Tilbury.....	45.00	40.00	105,192.17	314.0	165.61	2,319.00
Tillsonburg.....	45.00	40.00	153,644.20	475.7	250.89	4,934.39
Toronto.....	24.00	24.00	43,274,371.35	160,041.9	84,408.93	597,133.32
Toronto twp.....	30.00	30.00	146,851.32	527.8	278.37	4,598.38
Walkerville.....	33.00	33.00	1,403,721.92	4,677.6	2,467.05	22,700.16
Wallaceburg.....	35.00	35.00	352,733.88	1,111.8	586.38	6,992.91
Wardsville.....	82.20	77.00	9,256.48	13.9	7.33	220.95
Waterdown.....	36.00	40.00	63,530.25	195.3	103.00	1,525.84
Waterford.....	35.00	34.00	60,254.44	192.9	101.74	1,639.28
Waterloo.....	28.00	28.00	523,880.48	2,029.7	1,070.50	9,835.36
Watford.....	70.00	60.00	44,890.80	92.5	48.79	1,277.60
Welland.....	23.00	23.00	483,033.88	2,109.0	1,112.33	7,507.73
Wellesley.....	44.00	44.00	55,427.97	138.3	72.94	1,365.43
West Lorne.....	40.00	40.00	88,519.91	266.7	140.66	3,015.71
Weston.....	30.00	28.00	510,579.85	1,887.8	995.66	9,057.12
Wheatley.....		91.00	24,319.17	35.1	18.51	299.61
Windsor.....	33.00	30.00	3,833,321.94	12,900.6	6,803.99	61,850.15
Woodbridge.....	38.00	36.00	87,078.59	268.1	141.40	2,192.78
Woodstock.....	28.00	28.00	773,878.64	3,108.2	1,639.32	15,458.93
Wyoming.....	62.00	62.00	20,648.54	44.5	23.47	608.87
Zurich.....	74.00	68.00	37,765.92	60.9	32.11	1,021.23
RURAL POWER DISTRICTS*						
Amherstburg—Anderdon and Malden twps.....			94,268.31	260.9	137.60	2,324.53
Aylmer—Dorchester S. and Yarmouth twps.....			4,550.15	11.3	5.96	219.36
Baden—Wilmot twp.....			7,469.84	22.6	11.92	191.89
Barton—Barton and Glanford twps.....			2,269.03	6.8	3.58	61.47
Beamsville—Grimsby N., Clinton and Louth twps.....			52,552.36	150.6	79.42	1,054.22
Belle River—Maidstone and Rochester twps.....			39,696.24	99.2	52.32	1,125.18
Blenheim—Raleigh and Harwich twps.....			423.90	1.2	0.62	26.05
Bolton—Albion twp.....			193.44	0.4	0.21	2.39
Bond Lake—King, Markham and Whitchurch twps.....			17,957.18	51.5	27.16	860.51
Bothwell—Ekfrid and Mosa twps.....			2,454.24	4.3	2.26	52.40
Brampton—Chinguacousy and Toronto twps.....			896.13	3.2	1.69	19.62
Brant—Brantford and Dumfries S. twps....			7,783.23	27.3	14.40	361.32
Chatham—Dover E., Raleigh and Harwich twps.....			16,709.31	58.1	30.65	655.28
Chippawa—Willoughby and Bertie twps....			15,184.63	61.0	32.19	234.22
Delaware—Delaware, Westminster, Caradoc, Ekfrid, Lobo and London twps.....			17,819.87	50.9	26.85	528.65

## SYSTEM—Continued

## COST OF POWER

Section 23 of the Act) of Power supplied to it by the Commission—the amount received the amount remaining to be credited or charged to each Municipality upon of power supplied to it in the year ending October 31, 1924

operating costs and fixed charges				Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality and rural power district	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Interest	Renewals	Contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,728.70	350.01	91.80	83.02	3,031.17	3,983.46	952.29	.....
1,047.03	208.66	94.50	377.05	2,592.80	2,940.65	347.85	.....
7,741.99	728.64	1,498.28	1,617.96	14,719.05	14,250.23	.....	468.82
5,404.80	795.24	706.50	1,027.24	10,418.39	13,438.80	3,020.41	.....
7,196.55	1,145.98	1,070.33	2,114.87	16,713.01	20,491.52	3,778.51	.....
2,195,787.89	268,379.33	360,094.27	497,877.13	4,003,680.87	3,841,108.00	.....	162,572.87
7,628.69	975.86	1,187.55	1,460.76	16,129.61	15,833.25	.....	296.36
70,370.50	9,848.96	10,524.60	19,033.19	134,944.46	154,622.26	19,677.80	.....
17,792.48	2,515.82	2,501.55	4,767.88	35,157.02	38,914.06	3,757.04	.....
480.07	92.94	31.28	28.28	860.85	1,111.30	250.45	.....
3,058.98	451.19	439.43	840.50	6,418.94	7,398.59	979.65	.....
2,952.03	405.40	434.03	711.48	6,243.96	6,671.80	427.84	.....
26,548.58	3,241.37	4,566.82	6,650.16	51,912.79	57,783.75	5,870.96	.....
2,318.63	408.70	208.13	920.82	5,182.67	6,072.64	889.97	.....
24,877.76	2,668.36	4,745.25	7,868.13	48,779.56	48,704.54	.....	75.02
2,826.81	464.78	311.17	797.61	5,838.74	6,086.22	247.48	.....
4,623.33	672.08	600.08	700.97	9,752.83	10,669.79	916.96	.....
25,969.18	3,298.65	4,247.55	6,594.06	50,162.22	55,056.14	4,893.92	.....
1,266.95	246.79	78.98	389.67	2,300.51	3,190.27	889.76	.....
199,742.39	26,972.26	29,026.35	39,646.69	364,041.83	419,577.76	55,535.93	.....
4,361.67	625.74	603.23	1,002.88	8,927.70	9,967.74	1,040.04	.....
39,504.88	4,618.52	6,993.45	9,686.73	77,901.83	87,028.71	9,126.88	.....
1,047.65	185.30	100.13	313.75	2,279.17	2,760.01	480.84	.....
1,945.87	372.74	137.03	633.34	4,142.32	4,347.88	205.56	.....
4,974.10	753.19	587.03	1,339.45	10,115.90	10,115.90	.....	.....
216.75	38.49	25.43	66.46	572.45	572.45	.....	.....
377.67	56.10	50.85	102.86	791.29	791.29	.....	.....
107.10	14.14	15.30	27.00	228.59	228.59	.....	.....
2,681.37	393.40	338.85	690.47	5,237.73	5,237.73	.....	.....
1,984.73	311.42	223.20	545.34	4,242.19	4,242.19	.....	.....
21.44	3.11	2.70	5.65	59.57	59.57	.....	.....
9.94	1.71	0.90	2.86	18.01	18.01	.....	.....
932.32	136.62	115.87	213.48	2,285.96	2,285.96	.....	.....
128.12	23.64	9.68	38.23	254.33	254.33	.....	.....
47.67	5.98	7.20	11.75	93.91	93.91	.....	.....
360.28	43.70	61.43	89.58	930.71	930.71	.....	.....
855.89	113.90	130.73	220.76	2,007.21	2,007.21	.....	.....
804.70	92.41	137.25	185.75	1,486.52	1,486.52	.....	.....
928.35	138.20	114.53	248.72	1,985.30	1,985.30	.....	.....

# NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under by the Commission from each Municipality on account of such cost—and ascertainment (by annual adjustment) of the actual cost

Rural Power District	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased from private corporations and other sources	Share of Operating, maintenance and administrative expenses
	\$ c.		\$ c.	\$ c.
Dorchester—London, Nissouri W., Nissouri E., Oxford N., Dorchester N., Dorchester S., Westminster and Yarmouth twps....	28,541.76	88.7	46.78	816.58
Drumbo—Blenheim and Blandford twps....	8,849.43	17.5	9.23	223.54
Dundas—Barton, Flamboro W., Beverley and Ancaster twps.....	6,900.28	27.7	14.62	219.70
Exeter—Hay, Stephen and Usborne twps..	17,923.46	43.2	22.78	381.90
Galt—Dumfries N. twp.....	5,732.43	21.9	11.55	107.37
Harrow—Colchester S. twp.....	1,588.62	4.0	2.11	29.02
Homer—Grantham twp.....	2,306.88	10.8	5.69	179.63
Ingersoll—Oxford N. twp.....	79.52	0.3	0.16	19.33
Jordan—Louth, Thorold and Grantham twps.....	3,807.24	15.9	8.38	135.36
Keswick—Georgina and Gwillimbury twps.	22,811.44	61.9	32.64	1,082.04
Kingsville—Gosfield S. and Mersea twps..	17,593.48	42.2	22.25	420.99
Lansing—Vaughan and York N. twps....	8,818.50	28.9	15.24	862.18
Leamington—Gosfield N., Gosfield S. and Mersea twps.....	35,246.79	87.7	46.25	614.35
London — Westminster, Delaware and London twps.....	62,487.68	222.7	117.45	1,886.74
Lynden—Beverley and Ancaster twps....	10,171.55	27.8	14.66	241.52
Markham—Markham and Scarboro twps..	2,235.26	33.3	868.51	219.54
Mount Joy—Markham twp.....	1,199.71	1.6	0.84	20.45
Niagara—Niagara twp.....	17,935.11	73.6	38.82	267.82
Newmarket—King twp.....	551.27	1.7	0.89	141.39
Petrolia—Sarnia twp.....	4,341.46	9.5	5.01	101.71
Preston—Waterloo twp.....	42,090.20	138.7	73.15	746.99
Ridgetown—Howard, Oxford and Harwich twps.....	13,958.55	37.5	19.77	397.08
St. Jacobs—Wellesley and Woolwich twps.	16,301.21	49.9	26.32	505.30
St. Thomas—Southwold and Yarmouth twps.....	28,713.03	96.3	50.79	714.00
Saltfleet—Saltfleet, Barton and Grimsby N. twps.....	66,620.50	215.9	113.87	1,255.45
Sandwich—Sandwich W., Sandwich E. and Sandwich S. twps.....	96,937.41	324.3	171.05	3,437.29
Sarnia—Sarnia and Moore twps.....	14,268.38	43.0	22.68	574.27
Scarboro—Scarboro and York twps.....	40.65	6.0	156.49	20.02
Simcoe—Woodhouse twp.....	5,139.87	13.8	7.28	201.35
Stamford—Thorold twp.....	7,849.05	37.5	19.78	132.72
Stratford—Ellice and Downie twps.....	13,029.74	45.9	24.21	300.53
Streetsville—Toronto twp.....	197.55	0.7	0.36	4.78
Tavistock—Easthope N. and Easthope S. twps.....	11,129.84	30.1	15.87	262.03
Tilbury—Tilbury E. and Raleigh twps....	435.49	1.3	0.68	9.20
Tillsonburg—Dereham twp.....	6,607.32	19.2	10.13	265.10



## SYSTEM—Continued

## COST OF POWER

Section 23 of the Act) of Power supplied to it by the Commission—the amount received the amount remaining to be credited or charged to each Municipality upon of power supplied to it in the year ending October 31, 1914

operating costs and fixed charges				Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality and rural power district	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Interest	Renewals	Contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,463.40	211.77	199.58	391.60	3,129.71	3,129.71		
443.33	79.38	39.38	131.40	926.26	926.26		
342.82	41.14	62.33	86.29	766.90	766.90		
933.15	153.56	97.20	263.34	1,851.93	1,851.93		
303.32	36.03	49.28	73.29	580.84	580.84		
83.60	13.34	9.00	23.11	160.18	160.18		
122.08	11.16	24.30	24.99	367.85	367.85		
(2.99)	0.53	0.68	1.07	18.78	18.78		
198.71	21.87	35.78	44.88	444.98	444.98		
1,183.09	179.42	139.27	278.50	2,894.96	2,894.96		
925.11	151.15	94.95	258.89	1,873.35	1,873.35		
461.13	61.58	65.02	98.06	1,563.21	1,563.21		
1,854.85	297.68	197.33	514.32	3,524.78	3,524.78		
3,254.35	402.34	501.08	796.89	6,958.85	6,958.85		
526.55	81.70	62.55	144.79	1,071.77	1,071.77		
109.02	27.88	74.92	40.16	1,340.03	1,340.03		
62.07	12.31	3.60	18.23	117.50	117.50		
894.69	91.37	165.60	200.58	1,658.88	1,658.88		
28.74	4.02	3.82	6.34	185.20	185.20		
227.02	38.66	21.38	64.95	458.73	458.73		
2,174.97	300.65	312.07	568.43	4,176.26	4,176.26		
713.17	112.93	84.38	199.27	1,526.60	1,526.60		
839.02	117.58	112.28	218.06	1,818.56	1,818.56		
1,523.52	202.31	216.68	385.41	3,092.71	3,092.71		
3,365.94	463.64	485.78	878.52	6,563.20	6,563.20		
5,121.22	679.45	708.08	1,295.18	11,412.27	11,412.27		
746.75	106.83	96.75	195.83	1,743.11	1,743.11		
2.04	0.49	13.50	0.71	193.25	193.25		
259.23	39.42	31.05	70.25	608.58	608.58		
397.66	33.89	84.38	83.97	752.40	752.40		
682.80	85.72	103.28	168.27	1,364.81	1,364.81		
10.15	1.34	1.58	2.60	20.81	20.81		
583.85	89.90	67.72	158.85	1,178.22	1,178.22		
22.88	3.28	2.93	6.01	44.89	44.89		
349.35	51.36	43.20	92.72	811.86	811.86		

## NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under by the Commission from each Municipality on account of such cost—and ascertainment (by annual adjustment) of the actual cost

Rural Power District	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased from private corporations and other sources	Share of
				Operating, maintenance and administrative expenses
	\$ c.		\$ c.	\$ c.
Wallaceburg—Dover, Chatham and Sombra twps. ....	16,117.80	50.8	26.79	364.99
Waterdown—Flamboro E. twp. ....	3,121.39	9.6	5.06	119.83
Waterford—Townsend twp. ....	4,716.64	15.1	7.97	117.35
Welland—Talham, Crowland and Humberstone twp. ....	94,966.37	369.0	2,673.10	2,063.25
Woodbridge—Vaughan and York N. twps. ....	20,066.13	56.9	30.01	390.00
Woodstock—Oxford W., Oxford E., Blandford and Zorra E. twps. ....	37,344.43	144.1	76.00	785.93
Totals—Municipalities. ....	89,357,512.80	327,678.3	200,290.45	1,495,550.39
Totals—Rural Power Districts. ....	1,039,000.56	3,335.8	5,242.05	28,355.71
Totals—Hydro Radial Railways. ....	1,181,857.40	3,600.3	1,898.86	35,473.59
Totals—Companies. ....	51,047,860.74	236,980.8	124,987.87	791,209.34
	142,626,231.50			
Non-operating capital. ....	4,771,586.00			
Grand totals. ....	147,397,817.50	571,595.2	332,419.23	2,350,589.03

\*The Commission supplies power to and operates the rural power districts. Revenue derived therefrom is applied to meet the cost of providing the power generated and transmitted to each of the rural districts as shown in above table of costs.

The results of the operations in rural power districts are shown in operating reports on pages 160 to 163.

## SYSTEM—Continued

## COST OF POWER

Section 23 of the Act) of Power supplied to it by the Commission—the amount received the amount remaining to be credited or charged to each Municipality upon of power supplied to it in the year ending October 31, 1924

operating costs and fixed charges				Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality and rural power district	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Interest	Renewals	Contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
835.10	114.95	114.30	215.15	1,671.28	1,671.28	.....	.....
158.58	22.29	21.60	41.46	368.82	368.82	.....	.....
239.14	31.73	33.98	60.44	490.61	490.61	.....	.....
5,063.77	586.56	830.25	1,109.41	12,326.34	12,326.34	.....	.....
1,035.29	152.46	128.03	275.12	2,010.91	2,010.91	.....	.....
1,940.95	232.45	324.23	475.49	3,835.05	3,835.05	.....	.....
4,543,738.87	570,242.95	737,274.21	1,059,838.19	8,606,935.06	88,72,645.38	383,536.80	207,826.48
53,909.85	7,472.14	7,484.05	13,751.19	116,214.99	116,214.99	.....	.....
61,574.82	8,674.60	8,100.67	14,012.87	129,735.41	129,735.41	.....	.....
2,767,743.73	258,572.82	.....	575,177.56	4,517,691.32	3,878,149.88	.....	639,541.44†
7,426,967.27	844,962.51	752,858.93	1,662,779.81	13,370,576.78	12,906,745.66	.....	.....

†Written out through Contingencies.



## NIAGARA SYSTEM—

## Operating Report for year

Name of rural power district and townships included therein	Total capital investment in each district and the amount of Government grant applied thereto			Total cost of power for year as provided to be paid under section 23 of Act*
	Total	Government grant	Balance	
	\$ c.	\$ c.	\$ c.	\$ c.
Amherstburg—Anderdon and Malden twps. . .	15,912.48	7,956.24	7,956.24	10,115.90
Aylmer—Dorchester S. and Yarmouth twps. . .	13,281.02	6,640.51	6,640.51	572.45
Baden—Wilmot twp. . . . .	12,871.42	6,435.71	6,435.71	791.29
Barton—Barton and Glanford twps. . . . .	8,732.25	4,366.12	4,366.13	228.59
Beamsville—Grimsby N., Clinton and Louth twps. . . . .	107,783.05	52,237.75	55,545.30	5,237.73
Belle River—Maidstone and Rochester twps. .	26,791.73	13,395.86	13,395.87	4,242.19
Blenheim—Raleigh and Harwich twps. . . . .	8,731.41	3,597.32	5,134.09	59.57
Bolton—Albion twp. . . . .	1,556.35	778.18	778.17	18.01
Bond Lake—King, Markham and Whitchurch twps. . . . .	43,458.06	19,605.81	23,852.25	2,285.96
Bothwell—Ekfrid and Mosa twps. . . . .	1,180.11	590.06	590.05	254.33
Brampton—Chinguacousy and Toronto twps. .	2,547.94	1,273.97	1,273.97	93.91
Brant—Brantford and Dumfries S. twps. . . .	26,909.69	13,175.55	13,734.14	930.71
Chatham—Dover E., Raleigh and Harwich twps. . . . .	44,682.86	22,341.43	22,341.43	2,007.21
Chippawa—Willoughby and Bertie twps. . . .	28,232.86	14,116.43	14,116.43	1,486.52
Delaware—Delaware, Westminster, Caradoc, Ekfrid, Lobo and London twps. . . . .	37,195.28	18,435.76	18,759.52	1,985.30
Dorchester—London, Nissouri W., Nissouri E., Oxford N., Dorchester N., Dorchester S., Westminster and Yarmouth twps. . . . .	69,514.82	33,432.65	36,082.17	3,129.71
Drumbo—Blenheim and Blandford twps. . . .	13,579.57	6,494.28	7,085.29	926.26
Dundas—Barton, Flamboro W., Beverley and Ancaster twps. . . . .	26,715.28	13,357.64	13,357.64	766.90
Exeter—Hay, Stephen and Usborne twps. . . .	22,813.54	10,973.46	11,840.08	1,851.93
Galt—Dumfries N. twp. . . . .	6,735.30	3,367.65	3,367.65	580.84
Harrow—Colchester S. twp. . . . .	720.08	360.04	360.04	160.18
Homer—Grantham twp. . . . .	9,740.34	4,870.17	4,870.17	367.85
Ingersoll—Oxford N. twp. . . . .	822.46	411.23	411.23	18.78
Jordan—Louth, Thorold and Grantham twps. .	28,236.77	14,118.39	14,118.38	444.98
Keswick—Georgina and Gwillimbury twps. . .	23,763.98	10,835.02	12,928.96	2,894.96
Kingsville—Gosfield S. and Mersea twps. . . .	25,381.39	12,690.70	12,690.69	1,873.35
Lansing—Vaughan and York N., twps. . . . .	27,839.73	13,919.86	13,919.87	1,563.21
Leamington—Gosfield N., Gosfield S. and Mersea twps. . . . .	22,195.98	11,097.99	11,097.99	3,524.78
London—Westminster, Delaware and London twps. . . . .	99,069.93	49,534.96	49,534.97	6,958.85
Lynden—Beverley and Ancaster twps. . . . .	21,253.14	15,626.57	15,626.57	1,071.77
Markham—Markham and Scarboro twps. . . .	21,090.75	10,545.37	10,545.38	1,340.03
Mount Joy—Markham twp. . . . .	1,689.58	462.97	1,226.61	117.50
Niagara—Niagara twp. . . . .	43,628.08	21,399.02	22,229.06	1,658.88
Newmarket—King twp. . . . .	2,885.21	1,185.72	1,699.49	185.20
Petrolia—Sarnia twp. . . . .	3,126.77	1,563.38	1,563.39	458.73

\* See "cost of power" table on preceding pages.

## RURAL POWER DISTRICTS

## RURAL OPERATING

Ending October 31, 1924

Cost of operation mainten- ance and adminis- tration	Interest on capital invest- ment	Renewal charges	Sinking fund	Total cost	Revenue	Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
907.81	492.27	318.26	143.21	11,977.45	13,354.04	1,376.59	.....
294.43	337.61	238.63	107.37	1,550.49	1,658.05	107.56	.....
628.60	391.33	257.43	115.83	2,184.48	2,550.17	365.69	.....
53.87	93.02	72.43	32.59	480.50	611.63	131.13	.....
4,461.93	2,862.94	1,960.44	889.61	15,412.65	21,203.39	5,790.74	.....
1,187.87	755.02	516.92	232.61	6,934.61	10,970.65	4,036.04	.....
130.53	59.74	41.39	20.92	312.15	441.30	129.15	.....
3.10	13.32	10.37	4.66	49.46	102.88	53.42	.....
1,205.27	1,145.55	659.17	334.84	5,630.79	7,613.61	1,982.82	.....
105.55	30.00	19.61	8.82	418.31	449.27	30.96	.....
25.70	76.06	50.96	22.93	269.56	394.79	125.23	.....
599.22	762.66	504.89	232.22	3,029.70	6,809.85	3,780.15	.....
1,071.61	1,289.58	881.57	396.70	5,646.67	9,226.02	3,579.35	.....
1,578.56	802.42	563.97	253.78	4,685.25	4,420.72	.....	264.53
1,151.49	1,091.61	733.80	333.12	5,295.32	8,047.35	2,752.03	.....
2,948.66	2,054.62	1,336.76	625.38	10,095.13	15,048.17	4,953.04	.....
334.79	415.85	270.50	127.05	2,074.45	3,829.90	1,755.45	.....
779.65	754.78	522.34	235.04	3,058.71	5,985.65	2,926.94	.....
913.18	674.80	451.45	210.96	4,102.32	6,446.89	2,344.57	.....
107.84	186.69	126.05	56.72	1,058.14	1,500.98	442.84	.....
54.88	24.48	14.40	6.48	260.42	223.79	.....	36.63
152.88	221.70	149.05	67.07	958.55	1,220.57	262.02	.....
30.43	23.25	16.45	7.40	96.31	41.24	.....	55.07
166.46	823.97	561.60	252.72	2,249.73	3,267.38	1,017.65	.....
1,566.93	677.48	365.31	183.20	5,687.88	5,865.52	177.64	.....
1,865.81	786.39	507.63	228.44	5,261.62	7,454.99	2,193.37	.....
1,114.94	662.92	432.96	194.83	3,968.86	6,337.93	2,369.07	.....
2,042.81	725.22	443.92	199.76	6,936.49	11,693.53	4,757.04	.....
3,408.96	1,920.78	1,351.26	608.06	14,247.91	20,535.27	6,287.36	.....
1,282.60	727.77	525.35	236.39	3,843.88	4,380.18	536.30	.....
819.90	608.11	414.78	186.65	3,369.47	5,470.61	2,101.14	.....
44.93	51.89	24.53	17.90	256.75	285.72	28.97	.....
508.03	758.93	565.36	258.14	3,749.34	5,008.26	1,258.92	.....
193.28	113.90	57.05	30.29	579.72	292.88	.....	286.84
55.39	89.04	57.21	25.74	686.11	619.99	.....	66.12

**NIAGARA SYSTEM—**  
**Operating Report for year**

Name of rural power district and townships included therein	Total capital investment in each district and the amount of Government grant applied thereto			Total cost of power for year as provided to be paid under section 23 of Act*
	Total	Government grant	Balance	
	\$ c.	\$ c.	\$ c.	\$ c.
Preston—Waterloo twp.....	76,874.52	38,437.26	38,437.26	4,176.26
Ridgetown—Howard, Oxford and Harwich twps.....	40,066.38	20,033.19	20,033.19	1,526.60
St. Jacobs—Wellesley and Woolwich twps....	37,155.58	18,577.79	18,577.79	1,818.56
St. Thomas—Southwold and Yarmouth twps....	70,823.68	35,411.84	35,411.84	3,092.71
Saltfleet—Saltfleet, Barton and Grimsby N. twps.....	158,151.74	79,075.87	79,075.87	6,563.20
Sandwich—Sandwich W., Sandwich E. and Sandwich S. twps.....	62,316.27	31,158.13	31,158.14	11,412.27
Sarnia—Sarnia and Moore twps.....	23,435.52	9,858.43	13,577.09	1,743.11
Scarboro—Scarboro and York N. twps.....	8,731.14	4,146.44	4,584.70	193.25
Simcoe—Woodhouse twp.....	4,088.23	1,214.06	2,874.17	608.58
Stamford—Thorold twp.....	16,751.47	8,375.73	8,375.74	752.40
Stratford—Ellice and Downie twps.....	8,198.82	4,099.41	4,099.41	1,364.81
Streetsville—Toronto twp.....	2,058.45	1,029.23	1,029.22	20.81
Tavistock—Easthope N. and Easthope S. twps....	10,292.54	5,146.27	5,146.27	1,178.22
Tilbury—Tilbury E. and Raleigh twps.....	396.09	198.05	190.04	44.98
Tillsonburg—Dereham twp.....	12,327.87	6,163.93	6,163.94	811.86
Wallaceburg—Dover, Chatham and Sombra twps.....	52,865.39	26,432.69	26,432.70	1,671.28
Waterdown—Flamboro E. twp.....	9,981.95	4,990.98	4,990.97	368.82
Waterford—Townsend twp.....	4,723.56	2,361.78	2,361.78	490.61
Welland—Pelham, Crowland and Humberstone twps.....	86,235.72	43,117.86	43,117.86	12,326.34
Woodbridge—Vaughan and York N. twp.....	13,475.56	5,698.55	7,777.01	2,010.91
Woodstock—Oxford W., Oxford E., Blandford and Zorra E. twps.....	91,855.46	45,927.73	45,927.73	3,835.05
Totals.....	1,651,475.15	812,648.99	838,826.16	116,214.99

\*See "cost of power" table on preceding pages.



## RURAL POWER DISTRICTS

## RURAL OPERATING

Ending October 31, 1924

Cost of operation mainten- ance and adminis- tration	Interest on capital invest- ment	Renewal charges	Sinking fund	Total cost	Revenue	Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,328.56	2,189.02	586.65	263.99	10,544.48	15,994.95	5,450.47	.....
969.83	1,148.33	791.35	356.09	4,792.20	8,049.02	3,256.82	.....
1,062.36	593.74	429.96	193.48	4,098.10	5,861.06	1,762.96	.....
4,078.37	1,913.63	1,321.24	594.56	11,000.51	18,111.41	7,110.90	.....
9,882.32	4,546.12	3,094.61	1,392.57	25,478.82	29,153.27	3,674.45	.....
4,802.84	1,256.38	872.63	392.67	18,736.79	24,483.24	5,746.45	.....
916.52	700.66	405.22	210.23	3,975.74	6,554.74	2,579.00	.....
122.62	224.83	149.93	71.41	762.04	1,359.53	597.49	.....
68.72	163.13	79.56	49.85	969.84	1,231.25	261.41	.....
1,699.62	498.55	319.97	143.98	3,414.52	5,456.02	2,041.50	.....
211.91	61.10	47.59	21.40	1,706.81	2,293.09	586.28	.....
15.72	56.22	41.09	18.49	152.33	276.31	123.98	.....
370.93	297.37	205.05	92.27	2,143.84	2,940.67	796.83	.....
25.95	10.94	6.60	2.97	91.44	180.93	89.49	.....
415.86	334.16	225.71	101.56	1,889.15	2,267.60	378.45	.....
1,089.90	1,366.41	960.02	432.00	5,519.61	10,096.61	4,577.00	.....
305.28	264.92	179.40	80.73	1,199.15	1,375.93	176.78	.....
192.69	99.90	77.80	35.01	896.01	810.44	.....	85.57
5,690.45	1,371.00	885.23	398.35	20,671.37	19,045.33	.....	1,626.04
640.02	391.82	237.20	125.29	3,405.24	3,260.30	.....	144.94
3,499.68	2,682.97	1,828.93	823.01	12,669.64	20,668.22	7,998.58	.....
71,188.04	42,676.90	27,769.54	12,687.34	270,536.81	372,833.09	104,862.02	2,565.74

## NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1924, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1923		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Acton.....	Jan., 1913	1,781.32			1,781.32
Agincourt.....	Nov., 1922	444.29			444.29
Ailsa Craig.....	Jan., 1916	83.42			83.42
Alvinston.....	April, 1922	1,837.83			1,837.83
Ancaster township.....	May, 1923				
Aylmer.....	Mar., 1918	1,921.53			1,921.53
Ayr.....	Jan., 1915	1,039.31			1,039.31
Baden.....	May, 1912	490.63			490.63
Barton township.....	Mar., 1924				
Beachville.....	Aug., 1912	1,658.55			1,658.55
Belle River.....	Dec., 1922	2,084.08			2,084.08
Blenheim.....	Nov., 1915	1,109.69			1,109.69
Blyth.....	July, 1924				
Bolton.....	Feb., 1915		843.96		1,372.15
Bothwell.....	Sept., 1915	1,642.04			1,642.04
Brampton.....	Nov., 1911		870.76	833.46	
Brantford.....	Feb., 1914	5,307.90			5,372.51
Brantford township.....	May, 1924				
Brigden.....	Jan., 1918		1,065.54	1,065.54	
Brussels.....	July, 1924				
Burford.....	June, 1915	621.05			621.05
Burgessville.....	Nov., 1916	295.77			295.77
Caledonia.....	Oct., 1912	373.97			373.97
Chatham.....	Feb., 1915	11,395.86			11,395.86
Chippawa.....	Sept., 1919		671.87	671.87	
Clifford.....	May, 1924				
Clinton.....	Mar., 1914	1,063.97			1,063.97
Comber.....	May, 1915	1,014.48			1,014.48
Courtright.....	Dec., 1923				
Dashwood.....	Sept., 1917	79.80			79.80
Delaware.....	Mar., 1915	475.07			475.07
Dereham township.....	Sept., 1919		2,552.98	79.15	
Derby.....	Dec., 1914	194.86			194.86
Drayton.....	May, 1918	261.21			261.21
Dresden.....	April, 1915	685.54			685.54
Drumbo.....	Dec., 1914	286.95			286.95
Dublin.....	Oct., 1917		971.66		
Dundas.....	Jan., 1911	1,921.81			1,921.81
Dunnville.....	June, 1918	414.33			414.33
Dutton.....	Sept., 1915	401.24			401.24
Elmira.....	Nov., 1913	3,149.13			3,149.13
Elora.....	Nov., 1914	1,508.12			1,508.12
Embro.....	Jan., 1915		804.86	804.86	
Erieau.....	July, 1924				
Essex.....	Nov., 1923				

## SYSTEM

## CREDIT OR CHARGE

supplied to it to October 31, 1923, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
37.00		1,323.22		1,360.22	
9.86		409.02		418.88	
1.80		278.81		280.61	
41.89		2,079.63		2,121.52	
		104.28		104.28	
44.89		2,221.00		2,265.89	
7.71		991.66		999.37	
9.78		791.68		801.46	
		1,103.03		1,103.03	
36.98		2,584.91		2,621.89	
53.22		2,341.54		2,394.76	
23.95		3,788.13		3,812.08	
		257.57		257.57	
	69.52	1,582.89			702.74
34.06		1,385.29		1,419.35	
	18.29	1,880.04		1,824.45	
101.03		4,848.31		4,884.73	
		10.23		10.23	
	31.86	187.87		156.01	
		220.99		220.99	
14.47		917.66		932.13	
6.30		420.89		427.19	
7.46		241.28		248.74	
227.29		13,380.86		13,608.15	
	9.98	287.72		277.74	
		219.23		219.23	
21.22		3,229.33		3,250.55	
21.96		1,023.50		1,045.46	
		431.20		431.20	
1.59			99.57		97.98
10.55		322.32		332.87	
	100.48		227.56		2,801.87
4.22		352.50		356.72	
5.21		117.27		122.48	
15.09		584.85		599.94	
26.71		167.46		194.17	
	38.87	338.77			671.76
36.64		130.05		166.69	
9.62		1,185.39		1,195.01	
7.82		838.60		846.42	
65.16		3,378.25		3,443.41	
31.01		927.47		958.48	
	31.26	194.68		163.42	
		135.44		135.44	
		1,923.42		1,923.42	



## NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1924, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1923		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Etobicoke township.....	Aug., 1917	3,087.73			3,087.73
Exeter.....	June, 1916	2,745.90			2,745.90
Fergus.....	Nov., 1914	1,568.07			1,568.07
Ford City.....	Nov., 1922	5,018.75			5,018.75
Forest.....	Mar., 1917	527.94			527.94
Galt.....	May, 1911	7,333.57			7,333.57
Georgetown.....	Sept., 1913	1,247.19			1,247.19
Glencoe.....	Aug., 1920	1,031.97			1,031.97
Goderich.....	Feb., 1914		8,233.51	8,233.51	
Grantham township.....	May, 1915		1,069.14	324.80	
Granton.....	July, 1916	111.37			111.37
Guelph.....	Dec., 1910	6,361.94			6,361.04
Hagersville.....	Sept., 1913	979.11			979.11
Hamilton.....	Feb., 1911		74,025.93	76,493.45	
Harriston.....	July, 1916	604.01			604.01
Harrow.....	Nov., 1923				
Hensall.....	Jan., 1917	690.07			690.07
Hespeler.....	Feb., 1911	996.39			996.39
Highgate.....	Dec., 1916	446.96			446.96
Humberstone.....	Oct., 1924				
Ingersoll.....	May, 1911	3,623.05			3,623.05
Jarvis.....	Feb., 1924				
Kingsville.....	Nov., 1923				
Kitchener.....	Jan., 1911	906.34			906.34
Lambeth.....	April, 1915	1,143.89			1,143.89
Leamington.....	Nov., 1923				
Listowel.....	June, 1916	384.89			384.89
London.....	Jan., 1911		2,834.87	2,834.87	
London Railway Commission.....	Aug., 1914		19,126.55		
Lucan.....	Feb., 1915	58.47			58.47
Lynden.....	Nov., 1915	458.13			458.13
Markham.....	April, 1920	1,078.75			1,078.75
Merlin.....	Dec., 1922	981.16			981.16
Merritton.....	Nov., 1920	178.01			178.01
Milton.....	April, 1913	1,126.50			1,126.50
Milverton.....	June, 1916		488.66	488.66	
Mimico.....	May, 1912		338.91	338.91	
Mitchell.....	Sept., 1911	522.09			522.09
Moorefield.....	Mar., 1918	45.92			45.92
Mount Brydges.....	Mar., 1915	472.62			472.62
Newbury.....	Mar., 1921	440.44			440.44
New Hamburg.....	Mar., 1911	734.45			734.45
New Toronto.....	Feb., 1914	2,573.87			2,573.87
Niagara Falls.....	Dec., 1915		12,417.21	481.98	
Niagara-on-Lake.....	Aug., 1919	625.11			625.11

## SYSTEM—Continued

## CREDIT OR CHARGE

supplied to it to October 31, 1923, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
63.89		1,409.93		1,473.82	
59.89		3,027.11		3,087.00	
37.22		827.55		864.77	
100.10		7,469.05		7,569.15	
10.41		646.55		656.96	
170.38		13,497.53		13,667.91	
24.87		1,789.40		1,814.27	
21.09		1,066.12		1,087.21	
	219.08	9,027.98		8,808.90	
	38.92		1,239.36		2,022.62
2.22		129.50		131.72	
126.89		11,654.84		11,781.73	
19.52		2,405.40		2,424.92	
	2,467.52		19,957.90		19,957.90
13.04		1,318.00		1,331.04	
		1,383.77		1,383.77	
15.97		825.52		841.49	
22.27		2,992.37		3,014.64	
9.16		357.13		366.29	
			3.15		3.15
81.00		7,636.77		7,717.77	
		640.09		640.09	
		2,553.77		2,553.77	
19.56		22,320.44		22,340.00	
28.31		1,164.72		1,193.03	
		5,563.73		5,563.73	
8.27		1,167.04		1,175.31	
	57.16	7,934.77		7,877.61	
	765.06		13,815.24		33,706.85
1.12		112.59		113.71	
9.89		954.79		964.68	
25.58		1,253.64		1,279.22	
26.54		1,002.83		1,029.37	
3.55			720.63		717.08
24.32		643.67		667.99	
	13.23	1,136.46		1,123.23	
	10.21	2,481.43		2,471.22	
11.27		1,152.49		1,163.76	
.91		87.74		88.65	
12.05		257.58		269.63	
9.82		431.98		441.80	
15.85		1,506.42		1,522.27	
55.56		4,466.80		4,522.36	
	487.60		6,204.05		18,626.88
13.10		184.95		198.05	

## NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1924, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1923		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
North York township.....	Nov., 1923				
Norwich.....	May, 1912	1,817.31			1,817.31
Oil Springs.....	Feb., 1918	2,609.97			2,609.97
Otterville.....	Feb., 1916	295.59			295.59
Palmerston.....	July, 1916	664.53			664.53
Paris.....	Feb., 1914	1,857.10			1,857.10
Parkhill.....	May, 1920	809.76			809.76
Petrolia.....	May, 1916	3,274.51			3,274.51
Plattsville.....	Dec., 1914		1,279.02		
Point Edward.....	1917	434.26			434.26
Port Colborne.....	Mar., 1920		265.75		
Port Credit.....	Aug., 1912		409.34	409.34	
Port Dalhousie.....	Nov., 1912		645.94	645.94	
Port Dover.....	Dec., 1921	1,250.29			1,250.29
Port Robinson.....	Mar., 1913		916.07		
Port Stanley.....	April, 1912	1,254.27			1,254.27
Preston.....	Jan., 1911	2,235.17			2,235.17
Princeton.....	Jan., 1915	298.90			298.90
Queenston.....	Mar., 1921		0.23	0.23	
Ridgetown.....	Dec., 1915	2,075.43			2,075.43
Riverside.....	Nov., 1922	1,524.68			1,524.68
Rockwood.....	Sept., 1913	433.08			433.08
Rodney.....	Feb., 1917	57.62			57.62
St. Catharines.....		2,836.35			2,836.35
St. Clair Beach.....	Nov., 1922	1,011.50			1,011.50
St. George.....	Sept., 1915	1.84			1.84
St. Jacobs.....	Sept., 1917	68.30			68.30
St. Marys.....	May, 1911		172.73	172.73	
St. Thomas.....	April, 1911	7,365.94			7,365.94
Sandwich.....	Feb., 1924				
Sarnia.....	Dec., 1916	10,088.87			10,088.87
Scarboro township.....	Aug., 1918	2,047.60			2,047.60
Seaforth.....	Nov., 1911	499.09			499.09
Simcoe.....	Aug., 1915	2,110.30			2,110.30
Springfield.....	Aug., 1917		313.24	313.24	
Stamford township.....	Nov., 1916	584.24			584.24
Stouffville.....	Sept., 1923	152.32			152.32
Stratford.....	Jan., 1911	2,478.13			2,478.13
Strathroy.....	Dec., 1914	2,000.13			2,000.13
Streetsville.....		5,964.89			
Sutton.....	Aug., 1923		183.76	183.76	
Tavistock.....	Nov., 1916		1,425.46	1,425.46	
Tecumseh.....	Nov., 1922	995.09			995.09
Thamesford.....	Feb., 1914	548.19			548.19
Thamesville.....	Oct., 1915	530.05			530.05



## SYSTEM—Continued

## CREDIT OR CHARGE

supplied to it to October 31, 1923, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
38.87		1,562.83	469.54	1,601.70	469.54
58.46		1,085.47		1,143.93	
6.25		410.35		416.60	
14.35		1,306.46		1,320.81	
37.04		2,668.81		2,705.85	
18.78		810.30		829.08	
73.47		4,717.56		4,791.03	
8.66	51.16	785.19			544.99
		1,169.08		1,177.74	
	10.63		304.85		581.23
1.70		610.15		611.85	
	8.89	30.61		21.72	
28.91		1,603.24		1,632.15	
	36.64		46.80		999.51
29.75		1,248.75		1,278.50	
48.25		3,353.24		3,401.49	
6.33		432.71		439.04	
			305.03		305.03
44.27		1,478.06		1,522.33	
30.41		2,444.12		2,474.53	
8.93		343.53		352.46	
1.20		274.37		275.57	
56.57		30.70		87.27	
22.17		940.91		963.08	
.03			78.01		77.98
1.57			43.13		41.56
	4.12	1,491.75		1,487.63	
142.88		13,016.08		13,158.96	
		878.15		878.15	
201.22		17,428.94		17,630.16	
47.57		4,249.84		4,297.41	
9.95		2,372.14		2,382.09	
44.14		2,229.68		2,273.82	
	12.49		208.13		220.62
11.61			611.90		600.29
3.03		1,951.92		1,954.95	
48.82		7,098.55		7,147.37	
40.44		2,706.20		2,746.64	
238.60		2,192.55		8,396.04	
	4.06	771.46		767.40	
	48.11		78.56		126.67
20.23		1,076.82		1,097.05	
12.15		775.74		787.89	
12.02		1,079.71		1,091.73	

## NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1924, and the accumulated amount standing

Municipality or Rural power district	Date commenced operating	Net credit or charge at October 31, 1923		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Thedford.....	May, 1922	1,656.32			1,656.32
Thorndale.....	Mar., 1914		1,338.38		
Thorold.....	Jan., 1921	2,592.99			3,488.12
Tilbury.....	April, 1915	2,504.15			2,504.15
Tillsonburg.....	Aug., 1911	3,890.08			3,890.08
Toronto.....	June, 1911	6,332.08			6,332.08
Toronto township.....	Aug., 1913		29.00	29.00	
Walkerville.....	Nov. 1914	19,237.79			19,237.79
Wallaceburg.....	Feb., 1915	399.75			399.75
Wardsville.....	June, 1921	83.36			83.36
Waterdown.....	Nov., 1911		194.84	194.84	
Waterford.....	April, 1915	650.60			650.60
Waterloo.....	Dec., 1910	3,706.01			3,706.01
Watford.....	Sept., 1917	1,951.77			1,951.77
Welland.....	Sept., 1917		5,108.35		
Wellesley.....	Nov., 1916	68.74			68.74
West Lorne.....	Jan., 1917	435.79			435.79
Weston.....	Jan., 1911	5,966.98			5,966.98
Wheatley.....	Feb., 1924				
Windsor.....	Oct., 1914	54,448.46			54,448.46
Woodbridge.....	Dec., 1914	1,246.20			1,246.20
Woodstock.....	Jan., 1911	5,526.35			5,526.35
Wyoming.....	Nov., 1916		588.64	588.64	
Zurich.....	Sept., 1917	426.35			426.35
Rural Power Districts—					
Amherstburg.....	Nov., 1923				
Aylmer.....	Nov., 1920		1,807.67		30.05
Baden.....	Sept., 1913		585.15		77.20
Barton.....	Nov., 1922				
Beamsville.....	Jan., 1923	1,734.71			439.82
Belle River.....	Dec., 1922	1,965.95			116.20
Blenheim.....	July, 1924				
Bolton.....	July, 1924				
Bond Lake.....	Mar., 1924				
Bothwell.....	Dec., 1923				
Brampton.....	Nov., 1923				
Brant.....	Oct., 1914	2,160.37			149.68
Chatham.....	May, 1922	3,012.03			273.70
Chippawa.....	July, 1922		701.63		214.86
Delaware.....	Oct., 1922	1,090.53			130.58
Dorchester.....	Dec., 1921	7,051.32			383.99
Drumbo.....	Aug., 1922	1,179.80			82.76
Dundas.....	Jan., 1921	985.65			184.92
Exeter.....	Nov., 1922	1,826.35			142.39
Galt.....	Oct., 1922	335.81			38.23

## SYSTEM—Continued

## CREDIT OR CHARGE

supplied to it to October 31, 1923, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
40.46		952.29		992.75	
	53.53	347.85			1,044.06
32.04			468.82		1,331.91
52.71		3,020.41		3,073.12	
98.47		3,778.51		3,876.98	
218.26			162,572.87		162,354.61
	0.59		296.36		296.95
383.70		19,677.80		20,061.50	
7.97		3,757.04		3,765.01	
1.81		250.45		252.26	
	4.29	979.65		975.36	
14.34		427.84		442.18	
72.41		5,870.96		5,943.37	
53.39		889.97		943.36	
	204.33		75.02		5,387.70
1.37		247.48		248.85	
9.26		916.96		926.22	
119.01		4,893.92		5,012.93	
		889.76		889.76	
1,062.12		55,535.93		56,598.05	
25.82		1,040.04		1,065.86	
123.55		9,126.88		9,250.43	
	22.32	480.84		458.52	
8.68		205.56		214.24	
		1,376.59		1,376.59	
	73.51	107.56			1,803.67
	26.49	365.69			323.15
		131.13		131.13	
51.80		5,790.74		7,137.43	
73.99		4,036.04		5,959.78	
		129.15		129.15	
		53.42		53.42	
		1,982.82		1,982.82	
		30.96		30.96	
		125.23		125.23	
80.43		3,780.15		5,871.27	
109.53		3,579.35		6,427.21	
	36.62		264.53		1,217.64
38.40		2,752.03		3,750.38	
266.69		4,953.04		11,887.06	
43.88		1,755.45		2,896.37	
25.32		2,926.94		2,752.99	
67.36		2,344.57		4,095.89	
11.90		442.84		752.32	



## NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1924, and the accumulated amount standing

Rural power district	Date commenced operating	Net credit or charge at October 31, 1923		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
Harrow.....	Nov., 1923				
Homer.....	Nov., 1922	411.02			24.49
Ingersoll.....	Oct., 1914	274.86			6.43
Jordan.....	May, 1922	391.15			146.69
Keswick.....	Mar., 1924				
Kingsville.....	Nov., 1923				
Lansing.....	Mar., 1924				
Leamington.....	Nov., 1923				
London.....	Nov., 1922	619.12			44.24
Lynden.....	Feb., 1922	631.93			87.22
Markham.....	Dec., 1922	2,005.36			124.67
Mount Joy.....	Jan., 1924				
Niagara.....	Jan., 1922	2,212.05			106.38
Newmarket.....	Mar., 1924				
Petrolia.....	Aug., 1923	44.66			3.55
Preston.....	April, 1922	7,234.10			335.13
Ridgetown.....	Mar., 1922	5,294.48			281.17
St. Jacobs.....	Nov., 1922	600.49			46.99
St. Thomas.....	Aug., 1923		88.18		34.53
Saltfleet.....	Feb., 1922	4,426.90			999.49
Sandwich.....	July, 1922	1,583.56			66.46
Sarnia.....	June, 1923	588.65			32.03
Scarboro.....	Dec., 1923				
Simcoe.....	Nov., 1922	246.18			6.41
Stamford.....	Mar., 1922	1,669.68			79.07
Stratford.....	July, 1924				
Streetsville.....	Nov., 1922	141.66			16.21
Tavistock.....	April, 1923	559.49			38.29
Tilbury.....	Dec., 1923				
Tillsonburg.....	Dec., 1923				
Wallaceburg.....	Jan., 1923	2,462.29			29.99
Waterdown.....	Oct., 1922	337.99			35.22
Waterford.....	Nov., 1923				
Welland.....	April, 1922	777.39			12.78
Woodbridge.....	Jan., 1923	1.09			21.81
Woodstock.....	Feb., 1913	7,518.53			598.63
Totals.....		324,322.63	142,369.79	96,614.24	264,756.74

## SYSTEM—Continued

## CREDIT OR CHARGE

supplied to it to October 31, 1923, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
			36.63		36.63
15.46		262.02		664.01	
10.74			55.07	224.10	
9.78		1,017.65		1,271.89	
		177.64		177.64	
		2,193.37		2,193.37	
		2,369.07		2,369.07	
		4,757.04		4,757.04	
23.00		6,287.36		6,885.24	
28.50		536.30		1,109.51	
75.23		2,101.14		4,057.06	
		28.97		28.97	
84.23		1,258.92		3,448.82	
			286.84		286.84
1.64			66.12		23.37
275.96		5,450.47		12,625.40	
200.53		3,256.82		8,470.66	
22.14		1,762.96		2,338.60	
	4.91	7,110.90		6,983.28	
137.10		3,674.45		7,238.96	
60.68		5,746.45		7,324.23	
22.26		2,579.00		3,157.88	
		597.49		597.49	
9.59		261.41		510.77	
63.62		2,041.50		3,695.73	
		586.28		586.28	
5.02		123.98		254.45	
20.85		796.83		1,338.88	
		89.49		89.49	
		378.45		378.45	
97.29		4,577.00		7,106.59	
12.11		176.78		491.66	
			85.57		85.57
30.58			1,626.04		830.85
	0.83		144.94		166.49
276.80		7,998.58		15,195.28	
7,904.52	4,962.56	488,398.82	210,392.22	553,224.59	258,465.69

# NIAGARA SYSTEM

Including the Queenston-Chippawa development and the Plants and Works formerly owned by the Ontario Power Company of Niagara Falls and the Toronto Power Company, Limited.

## Reserve for Renewals Account, October 31, 1924

Total provision to October 31, 1923, for renewal of transmission lines and stations.....	\$3,056,310.98	
Deduct:		
Expenditures to October 31, 1923.....	271,868.52	
		\$2,784,442.46
Total provision to October 31, 1923, for renewal of plant and equipment of Ontario Power Company (and its subsidiary).....	\$1,688,752.60	
Less portion thereof accrued to August 1, 1917 (date of purchase of the company by the Commission) which has now been employed to write off discount on bonds, etc..	880,833.35	
		\$807,919.25
Deduct:		
Expenditures to October 31, 1923.....	156,319.99	
		651,599.26
Total provision to October 31, 1923, for renewal of plant and equipment of Toronto Power Company and its subsidiaries		567,401.47
Total provision to October 31, 1923, for renewal of plant and equipment of Essex County system.....	\$60,659.29	
Deduct:		
Expenditures to October 31, 1923.....	3,931.47	
		56,727.82
Total provision to October 31, 1923, for renewal of plant and equipment of Thorold system.....	\$5,083.05	
Deduct:		
Expenditures to October 31, 1923.....	9.24	
		5,073.81
Additional renewals for rural power districts added in year ending October 31, 1923.....		5,659.95
		\$4,070,904.77
Added during the year:		
Amounts charged to municipalities as part of the cost of power delivered to them.....	\$605,484.63	
Provision against equipment employed in respect of contracts with sundry customers.....	258,572.82	
By charges included in cost of power to Hydro electric railways.....	8,674.60	
Renewals reserve provided on second-hand equipment purchased.....	3,359.17	
Interest at 4% per annum on monthly balances to the credit of the account.....	168,176.06	
		1,044,267.28
		\$5,115,172.05
Deduct:		
Provision for renewals allowed on plant sold to certain municipalities in the Essex County system.....	\$17,153.84	
Expenditures during the year ending October 31, 1924.....	50,070.23	
		67,224.07
		<u>\$5,047,947.98</u>



# NIAGARA SYSTEM

Including the Queenston-Chippawa development and the Plants and Works formerly owned by the Ontario Power Company of Niagara Falls and the Toronto Power Company, Limited

## Reserve for Contingencies Account, October 31, 1924

Balance brought forward October 31, 1923.....		\$137,611.46
Reserve for contingencies provided by Toronto Power Company, to October 31, 1923.....		447,323.92
		<u>\$584,935.38</u>
Added during the year:		
Amounts charged to municipalities as part of the cost of power delivered to them.....	\$744,758.26	
By charges included in cost of power to Hydro electric railways.....	8,100.67	
By contingencies provided by Essex County system.....	20,592.90	
Interest at 4% per annum on balance brought forward (\$137,611.46) from 1923.....	5,504.46	
		<u>778,956.29</u>
		\$1,363,891.67
Expenditures to cover contingencies met with during the year ending October 31, 1924.....	\$60,057.44	
Applied in reduction of the book value of the transmission lines taken over with the Essex County system in 1918, now forming part of Niagara system.....	20,592.90	
Cost to the Commission (including sinking fund of \$575,177.56 for repayment of the investment in works) of the power delivered to customers under flat rate contracts in excess of the revenue received from them.....	639,541.44	
		<u>720,191.78</u>
		<u><u>\$643,699.89</u></u>

**NIAGARA SYSTEM**  
**Sinking Fund to year ending October 31, 1924**

Municipality	Sinking fund requirements in respect of transmission lines (only), the payment of which has been deferred		Sinking fund paid by each municipality as part of the cost of power delivered, together with its proportionate share of other sinking funds provided out of revenues of the system
	For period of	Amount	Amount
		\$ c.	\$ c.
Acton.....	1 year ending Oct. 31, 1924	1,043.59	8,282.31
Agincourt.....	2 " " " "	94.66	134.12
Ailsa Craig.....	4 " " " "	2,493.87	3,660.49
Alvinston.....	3 " " " "	1,886.56	555.68
Ancaster township.....	1 " " " "	325.49	1,057.85
Aylmer.....	5 " " " "	5,596.96	3,468.91
Ayr.....	3 " " " "	716.93	2,421.93
Baden.....	1 " " " "	508.94	7,046.89
Barton township.....	1 " " " "	415.35	1,124.80
Beachville.....	1 " " " "	763.95	8,769.51
Belle River.....	1 " " " "	205.00	333.78
Blenheim.....	4 " " " "	2,752.58	5,620.13
Blyth.....	1 " " " "	138.70	56.65
Bolton.....	4 " " " "	2,778.02	4,635.05
Bothwell.....	4 " " " "	2,323.25	4,979.54
Brampton.....			28,863.92
Brantford.....	3 " " " "	19,566.85	99,285.07
Brantford township.....			811.39
Brigden.....	5 " " " "	2,595.94	1,849.22
Brussels.....	1 " " " "	180.65	85.97
Burford.....	4 " " " "	1,376.05	2,016.16
Burgessville.....	5 " " " "	630.94	723.86
Caledonia.....	1 " " " "	223.96	2,564.72
Chatham.....	4 " " " "	19,516.18	54,183.48
Chippawa.....			1,348.25
Clifford.....	1 " " " "	132.57	57.05
Clinton.....	3 " " " "	2,845.41	7,007.10
Comber.....	4 " " " "	2,066.12	3,106.42
Courtright.....	1 " " " "	222.90	74.49
Dashwood.....	5 " " " "	2,114.37	1,259.41
Delaware.....	4 " " " "	295.54	507.97
Dereham township.....	5 " " " "	1,013.39	967.76
Dorchester.....	3 " " " "	280.53	902.73
Drayton.....	5 " " " "	2,888.93	1,122.60
Dresden.....	4 " " " "	1,892.16	4,718.15
Drumbo.....	3 " " " "	287.39	889.80
Dublin.....	5 " " " "	1,099.82	615.84
Dundas.....			28,131.12
Dunnville.....	5 " " " "	8,460.57	4,706.86
Dutton.....	4 " " " "	1,340.70	3,144.07
Elmira.....	2 " " " "	2,324.82	10,735.00
Elora.....	3 " " " "	2,264.36	7,196.29
Embro.....	3 " " " "	989.58	2,459.91
Erieau.....	1 " " " "	25.11	16.64
Essex.....			4,565.20

**NIAGARA SYSTEM—Continued**  
**Sinking Fund to year ending October 31, 1924**

Municipality	Sinking fund requirements in respect of transmission lines (only), the payment of which has been deferred		Sinking fund paid by each municipality as part of the cost of power delivered, together with its proportionate share of other sinking funds provided out of revenues of the system
	For period of	Amount	Amount
		\$ c.	\$ c.
Etobicoke township.....	5 years ending Oct. 31, 1924	4,480.12	8,857.69
Exeter.....	5 " " " "	4,499.67	7,385.48
Fergus.....	3 " " " "	2,219.54	6,289.10
Ford City.....			13,905.66
Forest.....	5 " " " "	4,642.83	3,393.93
Galt.....			93,417.86
Georgetown.....	2 " " " "	3,777.74	18,197.34
Glencoe.....	5 " " " "	2,759.13	965.18
Goderich.....	3 " " " "	8,648.87	20,715.15
Grantham township.....			6,321.41
Granton.....	5 " " " "	1,229.64	1,356.96
Guelph.....			105,512.54
Hagersville.....	2 " " " "	2,536.75	11,566.28
Hamilton.....			410,983.63
Harriston.....	5 " " " "	4,847.41	5,141.82
Harrow.....			1,709.23
Hensall.....	5 " " " "	2,125.52	2,773.47
Hespeler.....			13,461.11
Highgate.....	5 " " " "	1,359.42	1,781.01
Humberstone.....			45.03
Ingersoll.....			32,253.81
Jarvis.....	1 " " " "	238.30	241.28
Kingsville.....			5,335.53
Kitchener.....			183,684.19
Lambeth.....	4 " " " "	782.07	1,168.63
Leamington.....			6,272.51
Listowel.....	5 " " " "	6,818.37	9,018.60
London.....			364,011.87
London Railway Commission	3 " " " "	7,339.18	30,375.00
Lucan.....	4 " " " "	1,804.96	4,170.20
Lynden.....	4 " " " "	1,716.23	3,460.16
Markham.....	5 " " " "	1,784.00	1,060.01
Merlin.....	2 " " " "	848.72	614.36
Merritton.....			4,453.85
Milton.....	2 " " " "	4,083.67	20,653.46
Milverton.....	5 " " " "	4,539.37	7,347.27
Mimico.....	1 " " " "	1,541.00	13,952.86
Mitchell.....			8,857.69
Moorefield.....	5 " " " "	1,533.95	614.78
Mount Brydges.....	4 " " " "	607.98	1,337.21
Newbury.....	4 " " " "	563.66	286.43
New Hamburg.....			9,819.23
New Toronto.....	3 " " " "	10,947.97	56,060.42
Niagara Falls.....	4 " " " "	2,197.43	63,734.29
Niagara-on-the-Lake.....	5 " " " "	810.16	2,639.49



**NIAGARA SYSTEM—Continued**  
**Sinking Fund to year ending October 31, 1924**

Municipality	Sinking fund requirements in respect of transmission lines (only), the payment of which has been deferred		Sinking fund paid by each municipality as part of the cost of power delivered, together with its proportionate share of other sinking funds provided out of revenues of the system
	For period of	Amount	Amount
		\$ c.	\$ c.
North York township.....	1 year ending Oct. 31, 1924	62.50	974.86
Norwich.....	1 " " " "	782.45	8,784.51
Oil Springs.....	5 " " " "	3,585.52	3,168.01
Otterville.....	5 " " " "	846.48	899.71
Palmerston.....	5 " " " "	3,552.48	4,658.94
Paris.....	3 " " " "	3,412.27	16,296.69
Parkhill.....	5 " " " "	2,788.53	842.70
Petrolia.....	5 " " " "	8,761.74	14,357.56
Plattsville.....	3 " " " "	784.31	2,748.30
Point Edward.....	5 " " " "	2,220.48	3,140.73
Port Colborne.....			7,033.25
Port Credit.....	1 " " " "	387.41	3,653.73
Port Dalhousie.....			3,281.56
Port Dover.....	3 " " " "	1,164.06	864.78
Port Robinson.....			4,017.80
Port Stanley.....	1 " " " "	709.14	8,276.33
Preston.....			46,669.27
Princeton.....	3 " " " "	517.89	1,180.44
Queenston.....	4 " " " "	109.11	519.44
Ridgetown.....	4 " " " "	2,937.08	6,136.80
Riverside.....			3,131.63
Rockwood.....	2 " " " "	528.75	2,262.97
Rodney.....	5 " " " "	1,604.18	1,416.81
St. Catharines.....			54,268.06
St. Clair Beach.....			476.11
St. George.....	4 " " " "	944.96	2,141.06
St. Jacobs.....	5 " " " "	1,001.86	1,099.12
St. Marys.....			25,486.45
St. Thomas.....			81,162.74
Sandwich.....	1 " " " "	1,846.23	3,816.99
Sarnia.....	5 " " " "	41,349.26	66,450.73
Scarboro township.....	5 " " " "	1,287.96	4,808.45
Seaforth.....			18,412.71
Simcoe.....	4 " " " "	2,928.37	6,816.33
Springfield.....	5 " " " "	1,160.10	584.31
Stamford township.....	5 " " " "	750.12	7,856.04
Stouffville.....	2 " " " "	420.21	412.13
Stratford.....			91,389.52
Strathroy.....	3 " " " "	4,432.68	13,568.44
Streetsville.....			8,474.53
Sutton.....	2 " " " "	241.20	289.52
Tavistock.....	5 " " " "	3,854.76	5,546.07
Tecumseh.....			1,233.51
Thamesford.....	3 " " " "	1,113.71	3,286.08
Thamesville.....	4 " " " "	1,183.87	2,471.62

**NIAGARA SYSTEM—Continued**  
**Sinking Fund to year ending October 31, 1924**

Municipality or Rural power district	Sinking fund requirements in respect of transmission lines (only), the payment of which has been deferred	Sinking fund paid by each municipality as part of the cost of power delivered, together with its proportionate share of other sinking funds provided out of revenues of the system	
		For period of	Amount
			Amount
		\$	c.
Thedford.....	3 years ending Oct. 31, 1924	1,161.92	317.78
Thorndale.....	3 " " " "	791.46	2,868.52
Thorold.....			5,527.28
Tilbury.....	4 " " " "	2,504.56	5,022.29
Tillsonburg.....			18,442.68
Toronto.....			2,206,948.50
Toronto township.....	2 " " " "	1,522.77	6,988.17
Walkerville.....	3 " " " "	29,182.51	117,461.26
Wallaceburg.....	4 " " " "	8,829.25	21,681.79
Wardsville.....	4 " " " "	393.92	131.55
Waterdown.....			4,865.41
Waterford.....	4 " " " "	1,417.14	3,808.06
Waterloo.....			38,099.94
Watford.....	5 " " " "	3,594.29	1,942.02
Welland.....	5 " " " "	12,812.14	36,381.59
Wellesley.....	5 " " " "	2,563.89	3,376.79
West Lorne.....	5 " " " "	2,620.33	3,129.68
Weston.....			35,081.35
Wheatley.....			457.32
Windsor.....	3 " " " "	62,282.12	171,875.62
Woodbridge.....	3 " " " "	1,593.80	5,060.55
Woodstock.....			53,100.49
Wyoming.....	5 " " " "	1,126.61	1,390.33
Zurich.....	5 " " " "	2,993.70	1,503.89
Rural Power Districts—			
Amherstburg.....			2,823.79
Aylmer.....			809.33
Baden.....			807.66
Barton.....			72.70
Beamsville.....			2,965.42
Belle River.....			1,471.08
Blenheim.....			28.88
Bolton.....			348.58
Bond Lake.....			647.58
Bothwell.....			55.34
Brampton.....			40.85
Brant.....			998.13
Chatham.....			1,842.32
Chippawa.....			1,222.12
Delaware.....			1,006.64
Dorchester.....			2,989.97
Drumbo.....			675.68
Dundas.....			1,212.60
Exeter.....			1,038.50
Galt.....			297.95

**NIAGARA SYSTEM—Continued**  
**Sinking Fund to year ending October 31, 1924**

Municipality or Rural power district	Sinking fund requirements in respect of transmission lines (only), the payment of which has been deferred.		Sinking fund paid by each municipality as part of the cost of power delivered, together with its proportionate share of other sinking funds provided out of revenues of the system
	For period of	Amount	Amount
Rural Power Districts—Continued		\$ c.	\$ c.
Harrow.....		75.24	75.24
Homer.....		195.45	195.45
Ingersoll.....		194.34	194.34
Jordan.....		604.89	604.89
Keswick.....		581.01	581.01
Kingsville.....		2,475.45	2,475.45
Lansing.....		348.59	348.59
Leamington.....		3,530.84	3,530.84
London.....		1,979.74	1,979.74
Lynden.....		773.94	773.94
Markham.....		585.04	585.04
Mount Joy.....		39.21	39.21
Niagara.....		992.86	992.86
Newmarket.....		39.91	39.91
Petrolia.....		123.61	123.61
Preston.....		3,213.76	3,213.76
Ridgetown.....		1,499.52	1,499.52
St. Jacobs.....		672.86	672.86
St. Thomas.....		1,620.81	1,620.81
Saltfleet.....		6,351.86	6,351.86
Sandwich.....		5,684.84	5,684.84
Sarnia.....		590.14	590.14
Scarboro.....		83.68	83.68
Simcoe.....		261.78	261.78
Stamford.....		740.58	740.58
Stratford.....		1,229.14	1,229.14
Streetsville.....		43.75	43.75
Tavistock.....		433.19	433.19
Tilbury.....		11.49	11.49
Tillsonburg.....		231.28	231.28
Wallaceburg.....		909.91	909.91
Waterdown.....		253.43	253.43
Waterford.....		603.20	603.20
Welland.....		2,371.85	2,371.85
Woodbridge.....		562.60	562.60
Woodstock.....		3,586.63	3,586.63
Local Systems—			
Amherstburg.....		8,050.41	8,050.41
Cottam.....		1,087.58	1,087.58
Hydro Radial Railways—			
Toronto & York Radial Railway.....		28,353.85	28,353.85
Sandwich, Windsor & Amherstburg Railway..		1,817.22	1,817.22
Totals.....		420,622.43	5,285,257.90



# NIAGARA SYSTEM

## Sinking Fund Reserve, October 31, 1924

Total provision for sinking fund to October 31, 1923.....			\$3,184,758.95
Add:			
Provision for sinking fund on Essex and Thorold systems (now combined with Niagara system) as at October 31, 1923:			
Essex system.....	\$36,879.19		
Less amounts transferred to municipalities on plant sold to them.....	11,768.79		
		\$25,110.40	
Thorold system.....		96,591.80	
			121,702.20
Provision for sinking fund on rural lines to October 31, 1923		\$41,812.64	
Less amounts deducted in respect to sale of lines to municipalities.....		1,894.67	
			39,917.97
Proportionate share of administration and service building sinking fund to October 31, 1923.....			135,532.40
			\$3,481,911.52
Provided in the year ending October 31, 1924, in respect of:			
Advances by the Province for construction of transmission lines and stations.....	\$437,901.43		
Advances by the Province for construction of third pipe line to Ontario Power Co. plant.....	63,158.94		
Advances by the Province for construction of Queenston-Chippawa development.....	724,287.69		
Bonds issued and assumed by the Commission in connection with the purchase of the properties of the Ontario Power Co., the Toronto Power Co. and Essex system.....	485,429.37		
Amount credited in respect to purchase of transmission lines.....	2,291.06		
Interest at 4% on amounts standing at the credit of the reserve accounts.....	133,370.55		
			\$1,846,439.04
			<u>\$5,328,350.56</u>

# NIAGARA RURAL LINES

Statement showing the Interest and Sinking Fund charged by the Commission to the Municipalities which operate the respective Rural Lines for the year ending October 31, 1924

Operated by	Capital cost	Interest	Sinking fund	Total interest and sinking fund charged
	\$ c.	\$ c.	\$ c.	\$ c.
Ancaster township.....	5,159.03	257.95	92.86	350.81
Bothwell.....	6,571.84	355.90	547.44	903.34
Brampton.....	588.87	29.44	10.60	40.04
Dereham township.....	29,243.50	1,483.42	526.39	2,009.81
Elora.....	777.82	38.89	14.00	52.89
Etobicoke.....	54,608.68	2,984.09	982.96	3,967.05
Georgetown.....	8,889.59	444.48	160.01	604.49
Goderich.....	2,313.36	115.67	41.64	157.31
Louth township.....	2,771.19	138.56	49.88	188.44
Lucan.....	333.26	16.66	6.00	22.66
Milton.....	5,071.90	267.79	91.30	359.09
Norwich.....	35,159.54	1,773.59	632.94	2,406.53
Scarborough township.....	4,521.25	271.27	81.38	352.65
Toronto.....	1,203.01	52.23	18.80	71.03
Vaughan township.....	22,453.53	1,264.49	405.66	1,670.15
Waterdown.....	17,171.05	850.44	297.85	1,148.29
Waterloo.....	5,062.60	230.60	91.12	321.72
Welland.....	19,617.60	980.88	353.12	1,334.00
Weston.....	5,234.46	209.38	94.22	303.60
Totals.....	226,752.08	11,765.73	4,498.17	16,263.90
Non-operating.....	6,584.04			
	233,336.12			

## NIAGARA RURAL LINES

Statement showing the total Sinking Fund requirements of each line—all of which have been paid—and the total of such Sinking Fund payments with interest allowed thereon to October 31, 1924

Lines operated by	Sinking fund requirements which have been paid		Interest at 4% per annum allowed on sinking fund payments	Total sinking fund payments and accumulated interest to Oct. 31, 1924
	Period covered	Amount		
		\$ c.	\$ c.	\$ c.
Ancaster township...	11 years ending Oct. 31, 1924	1,006.89	238.49	1,245.38
Bothwell.....	9 " " " 1924	3,944.81	530.77	4,475.58
Brampton.....	7 " " " 1924	75.96	10.51	86.47
Dereham township...	7 " " " 1924	3,560.03	441.64	4,001.67
Elora.....	11 " " " 1924	139.91	28.05	167.96
Etobicoke.....	9 " " " 1924	8,048.28	1,331.80	9,380.08
Georgetown.....	11 " " " 1924	1,585.01	319.73	1,904.74
Goderich.....	11 " " " 1924	433.18	90.67	523.85
Louth township.....	6 " " " 1924	357.47	46.88	404.35
Lucan.....	5 " " " 1924	30.00	2.50	32.50
Milton.....	11 " " " 1924	266.92	31.29	298.21
Norwich.....	12 " " " 1924	5,663.48	1,036.04	6,699.52
Scarborough twp....	7 " " " 1924	909.19	144.08	1,053.27
Toronto.....	9 " " " 1924	80.95	9.79	90.74
Vaughan township...	10 " " " 1924	2,650.83	321.54	2,972.37
Waterdown.....	11 " " " 1924	2,328.63	445.08	2,773.71
Waterloo.....	11 " " " 1924	786.70	136.00	922.70
Welland.....	12 " " " 1924	3,967.12	864.22	4,831.34
Weston.....	11 " " " 1924	1,008.19	220.03	1,228.22
Totals.....		36,843.55	6,249.11	43,092.66



## GEORGIAN BAY

## Operating Account for Year

## COSTS OF OPERATION AS PROVIDED FOR UNDER SECTIONS 6C AND 23 OF THE ACT

Power purchased.....		\$19,559.70
Costs of operating and maintaining the generating plant, transmission lines, stations, etc., including the proportion of administrative expenses chargeable to the operation of this system.....		179,880.42
Interest on capital investment.....		210,750.13
Provisions for renewal of generating plant, lines and stations, etc.....		54,796.32
Provisions for contingencies:		
By charges against municipalities.....	\$14,141.40	
By appropriating the net profit on power sold to private companies	3,606.60	
		17,748.00
Provisions for Sinking Fund:		
By charges against municipalities.....	\$49,260.26	
By charges against contracts with private companies which purchased power.....	5,900.95	
		55,161.21
		<u>\$537,895.78</u>

## GEORGIAN BAY SYSTEM—

## Operating Account for year ending October 31, 1924, included in above

Power purchased from the Commission.....	\$4,821.19
Costs of operating and maintaining transmission lines and equipment.....	2,430.34
Interest on capital investment.....	2,824.30
Provision for renewals of lines and equipment.....	1,610.08
Provision for sinking fund for repayment of cash advances.....	999.09
	<u>\$12,685.00</u>

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\* Consult also page 21.

**SYSTEM\*****Ending October 31, 1924**

## REVENUE FOR PERIOD

Collected from municipalities.....	\$568,329.36	
Power sold to private companies.....	46,880.98	
	<u>\$615,210.34</u>	
Deduct:		
Amounts collected from certain municipalities in excess of the sum required to be paid by them for power supplied in the period	\$80,476.55	
Less:		
Amounts due by certain municipalities, being the difference be- tween sums paid and the cost of power supplied to them in the period.....	3,161.99	
	<u>77,314.56</u>	
		<u><u>\$537,895.78</u></u>

**RURAL POWER DISTRICTS****account of Georgian Bay System. For detail report see pages 190 and 191**

Revenue collected from rural power districts.....	\$15,787.78	
Add:		
Deficit on operation of certain rural power districts.....	\$306.92	
Deduct:		
Surplus on operation of certain rural power districts.....	3,409.70	
	<u>3,102.78</u>	
		<u><u>\$12,685.00</u></u>

## GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such cost, upon ascertainment (by annual adjustment) of the actual cost of

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased from private corporations and Niagara System	Share of operating	
	To June 1, 1924	To Oct. 31, 1924				Operating, maintenance and administrative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Alliston.....	55.00	60.00	69,643.11	121.9	151.97	2,062.68	3,544.67
Arthur.....	85.00	98.00	64,403.38	109.4	136.39	2,997.37	3,428.33
Barrie.....	29.00	28.00	266,974.41	1,294.3	1,613.59	12,794.79	13,008.06
Beaverton.....	50.00	50.00	38,397.62	155.7	194.11	2,031.74	1,638.98
Beeton.....	75.00	75.00	65,365.24	97.7	121.80	2,127.07	3,314.70
Bradford.....	75.00	84.00	64,996.23	91.5	114.07	2,074.98	3,218.13
Brechin.....	85.00	85.00	15,998.20	46.2	57.60	713.02	655.90
Cannington.....	55.00	55.00	27,128.67	97.4	121.43	1,598.77	1,138.84
Chatsworth.....	60.00	50.00	9,977.96	35.3	44.01	559.25	505.57
Chesley.....	50.00	50.00	92,530.63	315.6	393.45	3,842.90	4,714.41
Coldwater.....	40.00	35.00	22,992.77	81.6	101.73	1,037.13	1,091.90
Collingwood.....	40.00	33.00	338,664.83	1,350.7	1,683.89	17,552.49	15,431.72
Cookstown.....	60.00	58.00	16,462.94	35.6	44.38	752.95	831.13
Creemore.....	60.00	55.00	28,049.59	64.9	80.91	1,303.12	1,342.43
Dundalk.....	45.00	43.00	25,134.52	114.4	142.62	1,222.19	1,268.33
Durham.....	40.00	38.00	70,681.97	346.4	431.85	4,023.36	3,573.01
Elmvale.....	35.00	31.00	39,279.09	187.0	233.13	2,356.09	1,870.53
Elmwood.....	55.00	50.00	12,052.07	36.4	45.38	805.82	650.37
Flesherton.....	55.00	55.00	15,144.90	50.9	63.45	1,132.06	772.12
Grand Valley.....	60.00	72.00	33,192.53	75.4	94.00	1,698.11	1,767.87
Hanover.....	35.00	36.00	258,031.01	1,157.7	1,443.29	10,759.36	13,322.22
Holstein.....	90.00	90.00	11,869.24	12.5	15.58	370.54	641.76
Kincardine.....	70.00	70.00	125,101.00	221.9	276.64	4,167.02	6,864.53
Kirkfield.....	55.00	55.00	12,137.30	26.8	33.41	363.74	589.76
Lucknow.....	65.00	75.00	52,800.94	79.9	99.61	2,419.74	2,819.69
Markdale.....	40.00	39.00	21,306.99	96.5	120.30	1,348.78	1,096.98
Meaford.....	60.00	60.00	62,832.70	139.6	174.04	1,752.41	2,830.44
Midland.....	30.00	26.00	616,396.35	3,835.3	4,220.40	28,060.50	30,381.92
Mount Forest.....	60.00	58.00	71,625.28	221.1	275.64	2,875.24	3,668.28
Neustadt.....	45.00	45.00	57,368.29	162.5	202.59	1,923.46	3,107.34
Orangeville.....	60.00	60.00	89,541.04	242.6	302.45	4,043.52	4,750.13
Owen Sound.....	35.00	35.00	350,794.55	1,718.2	2,142.05	13,596.44	17,619.17
Paisley.....	80.00	80.00	31,302.16	65.6	81.78	1,403.22	1,682.10
Penetanguishene.....	30.00	27.00	99,082.00	420.9	524.73	3,812.85	3,805.73
Port McNicoll.....	30.00	28.00	11,839.58	56.6	70.56	596.05	556.51
Port Perry.....	90.00	70.00	45,815.80	90.8	113.20	1,929.86	2,302.11
Priceville.....	65.00	65.00	6,081.82	10.6	13.21	386.47	333.72
Ripley.....	70.00	80.00	33,000.04	39.7	49.49	1,280.48	1,777.84
Shelburne.....	50.00	45.00	54,730.38	196.3	244.72	2,450.80	2,644.72
Stayner.....	40.00	38.00	31,888.16	123.9	154.47	1,732.10	1,492.10
Sunderland.....	75.00	75.00	23,507.41	55.7	69.44	991.13	1,007.88
Tara.....	90.00	93.00	40,348.49	46.2	57.60	992.98	2,227.29
Teeswater.....	50.00	50.00	57,941.92	140.4	175.03	2,137.82	3,155.95
Thornton.....	85.00	85.00	11,963.20	15.7	19.57	452.04	610.82
Tottenham.....	90.00	96.00	39,973.34	45.4	56.60	1,075.21	2,040.62



## SYSTEM

## COST OF POWER

Section 23 of the Act) of Power supplied to it by the Commission—the amount—and the amount remaining to be credited or charged to each Municipality power supplied to it in the year ending October 31, 1924

costs and fixed charges			Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality and rural power district	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment		Sinking fund for the years mentioned hereunder charged as part of the cost of power in the year 1923-1924
Renewals	Contingencies	Sinking fund			Credited	Charged	
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	
924.20	121.90	507.07	7,312.49	6,960.02	.....	352.47	1917-18
805.81	109.40	1,172.24	8,649.54	9,458.58	809.04	.....	1922-23
3,434.66	1,294.30	3,190.44	35,335.84	37,006.61	1,670.77	.....	1921-22
516.92	155.70	669.63	5,207.08	7,785.00	2,577.92	.....	1923-24
865.30	97.70	373.04	6,899.61	7,328.10	428.49	.....	1917-18
837.89	91.50	75.11	6,411.68	7,192.48	780.80	.....	1917-18
219.35	46.20	277.85	1,969.92	3,764.04	1,794.12	.....	1923-24
371.50	97.40	476.66	3,804.60	5,355.58	1,550.98	.....	1923-24
124.17	35.30	175.16	1,444.46	1,864.66	421.20	.....	1923-24
1,125.63	315.60	1,750.92	12,142.91	15,781.29	3,638.38	.....	1922-23
299.71	81.60	365.39	2,977.46	2,887.91	.....	89.55	1921-22
4,395.04	1,350.70	4,945.55	45,359.39	50,190.03	4,830.64	.....	1921-22
217.50	35.60	237.45	2,119.01	2,105.20	.....	13.81	1917-18
370.17	64.90	442.37	3,603.90	3,541.10	.....	62.80	1920-21
315.14	114.40	442.00	3,504.68	5,062.51	1,557.83	.....	1923-24
886.35	346.40	1,240.61	10,501.58	13,436.25	2,934.67	.....	1923-24
505.78	187.00	548.84	5,701.37	6,240.62	539.25	.....	1921-22
150.96	36.40	379.03	2,067.96	1,869.68	.....	198.28	1920-21
188.43	50.90	266.09	2,473.05	2,797.19	324.14	.....	1923-24
415.42	75.40	661.10	4,711.90	4,629.70	.....	82.20	1922-23
3,235.08	1,157.70	6,138.94	36,056.59	41,193.67	5,137.08	.....	1922-23
148.47	12.50	215.45	1,404.30	1,120.50	.....	283.80	1922-23
1,565.62	221.90	.....	13,095.71	15,532.27	2,436.56	.....	.....
172.62	26.80	.....	1,186.33	1,476.25	289.92	.....	.....
641.82	79.90	.....	6,060.76	5,457.37	.....	603.39	.....
265.83	96.50	411.61	3,340.00	3,818.91	478.91	.....	1922-23
651.40	139.60	.....	5,547.89	8,377.80	2,829.91	.....	.....
7,869.04	3,385.30	6,975.64	80,892.80	87,559.54	6,666.74	.....	1921-22
892.38	221.10	1,262.23	9,194.87	13,128.74	3,933.87	.....	1923-24
718.46	162.50	1,070.88	7,185.23	7,175.22	.....	10.01	1920-21
1,119.00	242.60	1,685.66	12,143.36	14,554.75	2,411.39	.....	1922-23
4,399.31	1,718.20	6,157.79	45,632.96	60,137.67	14,504.71	.....	1923-24
384.83	65.60	.....	3,617.53	5,248.63	1,631.10	.....	.....
1,282.48	420.90	1,745.13	11,591.82	12,162.50	570.68	.....	1923-24
147.46	56.60	149.32	1,576.50	1,651.17	74.67	.....	1920-21
655.54	90.80	.....	5,091.51	7,400.39	2,308.88	.....	.....
76.11	10.60	.....	820.11	692.74	.....	127.37	.....
403.46	39.70	.....	3,550.97	2,966.94	.....	584.03	.....
636.05	196.30	938.33	7,110.92	9,414.51	2,303.59	.....	1922-23
414.26	123.90	548.85	4,465.68	4,876.26	410.58	.....	1921-22
332.34	55.70	416.46	2,872.95	3,971.85	1,098.90	.....	1923-24
504.75	46.20	743.87	4,572.69	4,216.14	.....	356.55	1920-21
725.45	140.40	.....	6,334.65	7,021.88	687.23	.....	.....
159.45	15.70	169.81	1,427.39	1,336.58	.....	90.81	1918-19
533.60	45.40	63.82	3,815.25	4,201.60	386.35	.....	1917-18

## GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such cost, upon ascertainment (by annual adjustment) of the actual cost of

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased from private corporations and Niagara System	Share of operating	
	To June 1, 1924	To Oct. 31, 1924				Operating, maintenance and administrative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Uxbridge.....	90.00	73.00	49,488.98	92.7	115.57	1,656.51	2,485.73
Victoria Harbor.	40.00	40.00	14,867.88	54.3	67.69	819.09	713.41
Waubashene...	40.00	40.00	8,664.81	36.2	45.13	666.39	418.75
Wingham.....	55.00	59.00	167,823.40	315.3	393.08	4,530.91	9,188.46
Woodville.....	75.00	65.00	20,894.75	51.5	64.20	815.48	863.15
Rural Power Districts—							
Barrie—Oro township.....			3,784.90	17.0	21.19	172.56	194.65
Cannington (No. 1)—Brock and Eldon townships.....			1,823.81	5.1	6.36	75.67	92.09
Cannington (No. 2)—Brock township.			1,776.23	4.6	5.73	87.31	89.61
Elmvale—Flos township.....			2,669.39	7.8	9.72	203.66	120.75
Flesherton—Artemesia township.....			663.43	1.2	1.50	(114.62)	34.09
Mariposa—Mariposa township.....			14,356.14	37.4	46.63	560.85	724.46
Markdale—Artemesia township.....			348.26	1.7	2.12	111.78	18.42
Nottawasaga—Nottawasaga township.			4,114.84	14.5	18.08	245.48	196.20
Port Perry—Reach township.....			1,009.66	2.5	3.12	33.04	50.34
Stayner—Nottawasaga, Sunnidale and Flos townships.....			4,927.98	17.9	22.32	258.48	251.96
Walkerton Quarry—Brant township..			537.46	1.0	1.25	23.56	27.16
Totals—Municipalities.....			3,796,089.47	14,030.7	17,491.83	162,096.03	188,766.11
Totals—Rural power districts.....			36,012.10	110.7	138.02	1,657.77	1,799.73
Totals—Companies.....			338,870.10	1,548.0	1,929.85	13,696.28	17,359.99
Grand Totals.....			4,170,971.67	15,689.4	19,559.70	177,450.08	207,925.83
Non-operating capital.....			155,889.59				
			4,326,861.26				

The Commission supplies power to and operates the rural power districts. Revenue derived therefrom is applied to meet the cost of providing the power generated and transmitted to each of the rural power districts as shown in above table of costs.

The results of the operations in rural power districts are shown in operating reports on pages 190 and 191.

## SYSTEM

## COST OF POWER

Section 23 of the Act) of Power supplied to it by the Commission, the amount—and the amount remaining to be credited or charged to each Municipality power supplied to it in the year ending October 31, 1924.

costs and fixed charges			Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality and rural power district	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment		Sinking fund for the years mentioned hereunder charged as part of the cost of power in the year 1923-1924
Renewals	Contingencies	Sinking fund			Credited	Charged	
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	
709.97	92.70	.....	5,060.48	7,654.21	2,593.73	.....	.....
193.27	54.30	246.45	2,094.21	2,173.64	79.43	.....	1920-21
112.24	36.20	123.08	1,401.79	1,449.63	47.84	.....	1920-21
2,100.43	315.30	.....	16,528.18	17,833.82	1,305.64	.....	.....
294.68	51.50	369.93	2,458.94	3,479.85	1,020.91	.....	1923-24
48.87	17.00	66.57	520.84	520.84	.....	.....	.....
25.50	5.10	32.23	236.95	236.95	.....	.....	.....
24.97	4.60	31.42	243.64	243.64	.....	.....	.....
30.64	7.80	41.50	414.07	414.07	.....	.....	.....
8.28	1.20	11.80	(57.75)	(57.75)	.....	.....	.....
202.29	37.40	254.59	1,826.22	1,826.22	.....	.....	.....
4.34	1.70	6.08	144.44	144.44	.....	.....	.....
53.65	14.50	72.76	600.67	600.67	.....	.....	.....
14.27	2.50	17.92	121.19	121.19	.....	.....	.....
64.18	17.90	87.08	701.92	701.92	.....	.....	.....
6.61	1.00	9.42	69.00	69.00	.....	.....	.....
48,315.33	14,030.70	47,629.80	478,329.80	552,541.58	77,066.85	2,855.07	.....
483.60	110.70	631.37	4,821.19	4,821.19	.....	.....	.....
4,387.31	.....	5,900.95	43,274.38	46,880.98	*3,606.60	.....	.....
53,186.24	14,141.40	54,162.12	526,425.37	604,243.75	.....	.....	.....

\* Transferred to credit of Contingency Reserve.

( ) Indicate credits.



GEORGIAN BAY SYSTEM—  
Operating Report for Year

Name of rural power district and townships included therein	Total capital investment in each district and the amount of Government grant applied thereto			Total cost of power for year as provided to be paid under section 23 of Act *
	Total	Government grant	Balance	
	\$ c.	\$ c.	\$ c.	\$ c.
Barrie—Oro township.....	8,321.33	4,160.67	4,160.66	520.84
Cannington (No. 1)—Brock and Eldon townships.....	4,657.20	2,112.78	2,544.42	236.95
Cannington (No. 2)—Brock township	4,535.44	1,960.17	2,575.27	243.64
Elmvale—Flos township.....	1,434.38	717.19	717.19	414.07
Flesherton—Artemesia township.....	2,641.51	1,320.75	1,320.76	(57.75)
Mariposa—Mariposa township.....	30,375.77	15,187.89	15,187.88	1,826.22
Markdale—Artemesia township.....	1,325.86	662.93	662.93	144.44
Nottawasaga—Nottawasaga township.....	15,058.56	7,529.28	7,529.28	600.67
Port Perry—Reach township.....	789.43	394.72	394.71	121.19
Stayner—Nottawasaga, Sunnidale and Flos townships.....	17,269.74	.....	17,269.74	701.92
Walkerton Quarry—Brant township.	2,104.91	1,052.46	1,052.45	69.00
Totals.....	88,514.13	35,098.84	53,415.29	4,821.19

\* See "cost of power" table on preceding pages.

RURAL POWER DISTRICTS  
ending October 31, 1924

RURAL OPERATING

Cost of operation, maintenance and adminis- tration	Interest on capital invest- ment	Renewal charges	Sinking fund	Total cost	Revenue	Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
356.23	223.30	156.43	78.59	814.55	1,388.82	53.43	.....
99.67	74.33	42.26	26.81	243.07	612.28	132.26	.....
109.20	176.39	39.20	63.62	388.41	868.30	236.25	.....
101.32	43.33	23.91	15.25	183.81	574.61	.....	23.27
62.67	85.22	52.72	27.44	228.05	393.08	222.78	.....
659.12	849.66	607.52	306.49	2,422.79	6,222.52	1,973.51	.....
102.78	12.56	8.83	4.04	128.21	84.04	.....	188.61
362.80	444.87	297.88	156.59	1,262.14	2,423.31	560.50	.....
59.74	24.43	15.79	8.81	108.77	391.87	161.91	.....
493.40	827.04	323.45	291.11	1,935.00	2,541.88	.....	95.04
23.41	63.17	42.09	20.34	149.01	287.07	69.06	.....
2,430.34	2,824.30	1,610.08	999.09	12,685.00	15,787.78	3,409.70	306.92

## GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power year, also the net amount Credited or Charged to each Municipality in respect amount standing as a Credit or Charge

Municipality	Date commenced operating	Net credit or charge at October 31, 1924		Cash receipts and payments on account of such credits and charges made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Alliston.....	June, 1918	.....	3,329.43	3,329.43	.....
Arthur.....	Dec., 1916	.....	6,605.39	.....	.....
Barrie.....	April, 1913	4,060.49	.....	.....	4,060.49
Beaverton.....	Nov., 1914	435.90	.....	.....	435.90
Beeton.....	Aug., 1918	500.28	.....	.....	500.28
Bradford.....	Oct., 1918	.....	7,703.10	856.30	.....
Brechin.....	Jan., 1915	.....	1,585.95	.....	.....
Cannington.....	Nov., 1914	507.82	.....	.....	507.82
Chatsworth.....	Dec., 1915	458.52	.....	.....	458.52
Chesley.....	July, 1916	433.57	.....	.....	433.57
Coldwater.....	Mar., 1913	873.29	.....	.....	873.29
Collingwood.....	Mar., 1913	14,573.78	.....	.....	14,573.78
Cookstown.....	May, 1918	226.37	.....	.....	226.37
Creemore.....	Nov., 1914	1,517.20	.....	.....	1,517.20
Dundalk.....	Dec., 1915	775.42	.....	.....	775.42
Durham.....	Dec., 1915	2,110.17	.....	.....	2,110.17
Elmvale.....	June, 1913	1,232.25	.....	.....	1,232.25
Elmwood.....	April, 1918	227.02	.....	.....	227.02
Flesherton.....	Dec., 1915	.....	482.23	482.23	.....
Grand Valley.....	Dec., 1916	.....	1,058.34	1,058.34	.....
Hanover.....	Sept., 1916	.....	773.12	773.12	.....
Holstein.....	May, 1916	.....	4,813.01	156.77	.....
Kincardine.....	Mar., 1921	.....	6,249.60	63.50	.....
Kirkfield.....	June, 1920	85.21	.....	.....	85.21
Lucknow.....	Jan., 1921	.....	1,067.41	1,067.41	.....
Markdale.....	Mar., 1916	507.36	.....	.....	507.36
Meaford.....	Jan., 1924	.....	.....	.....	.....
Midland.....	July, 1911	27,707.39	.....	.....	27,707.39
Mount Forest.....	Dec., 1915	.....	4,528.73	.....	.....
Neustadt.....	Dec., 1918	216.65	.....	.....	216.65
Orangeville.....	July, 1916	.....	3,661.80	.....	.....
Owen Sound.....	Dec., 1915	476.56	.....	.....	476.56
Paisley.....	Sept., 1923	441.03	.....	.....	441.03
Penetanguishene.....	July, 1911	4,110.79	.....	.....	4,110.79
Port McNicoll.....	Jan., 1915	320.85	.....	.....	320.85
Port Perry.....	Sept., 1922	2,105.17	.....	.....	2,105.17
Priceville.....	Mar., 1921	.....	157.92	.....	.....
Ripley.....	Jan., 1921	.....	936.45	936.45	.....
Shelburne.....	July, 1916	756.87	.....	.....	756.87
Stayner.....	Oct., 1913	1,568.50	.....	.....	1,568.50
Sunderland.....	Nov., 1914	.....	1,482.59	250.00	.....
Tara.....	Feb., 1918	.....	4,239.66	.....	.....
Teeswater.....	Dec., 1920	.....	243.06	243.06	.....
Thornton.....	Nov., 1918	.....	1,165.10	.....	.....
Tottenham.....	Oct., 1918	.....	3,411.51	.....	.....



## SYSTEM

## CREDIT OR CHARGE

supplied to it to October 31, 1923, the cash payments, and interest added during the of power supplied in the year ending October 31, 1924, and the accumulated to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	82.46	.....	352.47	.....	434.93
.....	264.22	.....	.....	.....	6,060.57
78.55	.....	1,670.77	.....	1,749.32	.....
8.69	.....	2,577.92	.....	2,586.61	.....
9.26	.....	428.49	.....	437.75	.....
.....	293.76	780.80	.....	.....	6,359.76
.....	31.63	1,794.12	.....	176.54	.....
9.72	.....	1,550.98	.....	1,560.70	.....
10.45	.....	421.20	.....	431.65	.....
8.02	.....	3,638.38	.....	3,646.40	.....
20.36	.....	.....	89.55	.....	69.19
322.92	.....	4,830.64	.....	5,153.56	.....
4.31	.....	.....	13.81	.....	9.50
19.57	.....	.....	62.80	.....	43.23
15.35	.....	1,557.83	.....	1,573.18	.....
47.68	.....	2,934.67	.....	2,982.35	.....
25.60	.....	539.25	.....	564.85	.....
4.57	.....	.....	198.28	.....	193.71
.....	3.62	324.14	.....	320.52	.....
.....	25.63	.....	82.20	.....	107.83
.....	15.25	5,137.08	.....	5,121.83	.....
.....	190.51	.....	283.80	.....	5,130.55
.....	249.09	2,436.56	.....	.....	3,998.63
1.70	.....	289.92	.....	291.62	.....
.....	27.72	.....	603.39	.....	631.11
9.94	.....	478.91	.....	488.85	.....
.....	.....	2,829.91	.....	2,829.91	.....
392.57	.....	6,666.74	.....	7,059.31	.....
.....	181.15	3,933.87	.....	.....	776.01
4.34	.....	.....	10.01	.....	5.67
.....	146.47	2,411.39	.....	.....	1,396.88
8.83	.....	14,504.71	.....	14,513.54	.....
8.29	.....	1,631.10	.....	1,639.39	.....
99.13	.....	570.68	.....	669.81	.....
6.78	.....	74.67	.....	81.45	.....
47.41	.....	2,308.88	.....	2,356.29	.....
.....	6.32	.....	127.37	.....	291.61
.....	25.15	.....	584.03	.....	609.18
14.01	.....	2,303.59	.....	2,317.60	.....
20.67	.....	410.58	.....	431.25	.....
.....	56.70	1,098.90	.....	.....	190.39
.....	169.59	.....	356.55	.....	4,765.80
.....	8.91	687.23	.....	678.32	.....
.....	46.60	.....	90.81	.....	1,302.51
.....	136.46	386.35	.....	.....	3,161.62

GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power year, also the net amount Credited or Charged to each Municipality in respect amount standing as a Credit or Charge

Municipality or Rural power district	Date commenced operating	Net credit or charge at October 31, 1924		Cash receipts and payments on account of such credits and charges made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Uxbridge.....	Sept., 1922	1,837.86			1,837.86
Victoria Harbor.....	July, 1914	634.18			634.18
Waubushene.....	Dec., 1914	130.23			130.23
Wingham.....	Dec., 1920		1,754.09	1,754.09	
Woodville.....	Nov., 1914		541.09	541.09	
Rural Power Districts—					
Barrie.....	July, 1923		17.91		
Cannington.....	July, 1924				
Cannington.....	July, 1924				
Elmvale.....	Jan., 1924				
Flesherton.....	Feb., 1922		110.13		
Mariposa.....	Sept., 1923		27.96		
Markdale.....	July, 1924				
Nottawasaga.....	Jan., 1922	245.28			
Port Perry.....	Dec., 1922	108.53			
Stayner.....	July, 1923		32.31		
Walkerton Quarry.....	Feb., 1922	22.72			
Totals.....		69,207.26	55,977.89	11,511.79	68,830.73

GEORGIAN BAY SYSTEM

Reserve for Renewals Account, October 31, 1924

Total provisions for renewals to October 31, 1923.....	\$397,778.78
Deduct expenditures to October 31, 1923.....	27,262.76
Balance brought forward October 31, 1923.....	\$370,516.02
Added during the year ending October 31, 1924:	
Amounts charged to municipalities as part of the cost of power delivered to them.....	\$50,409.01
Provision against equipment employed in respect of contracts with sundry companies.....	4,387.31
Interest at 4% per annum on monthly balances to the credit of the account.....	14,820.64
Renewals reserve provided on second-hand equipment purchased.....	158.21
	69,775.17
	\$440,291.19
Expenditures during the year ending October 31, 1924.....	4,076.92
Balance carried forward October 31, 1924.....	\$436,214.27

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1923, the cash payments, and interest added during the of power supplied in the year ending October 31, 1924, and the accumulated to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
36.53		2,593.73		2,630.26	
6.71		79.43		86.14	
2.45		47.84		50.29	
	34.02	1,305.64		1,271.62	
	20.91	1,020.91		1,000.00	
	0.72	53.43		34.80	
		132.26		132.26	
		236.25		236.25	
			23.27		23.27
	4.41	222.78		108.24	
	1.12	1,973.51		1,944.43	
			188.61		188.61
9.81		560.50		815.59	
4.34		161.91		274.78	
	1.29		95.04		128.64
0.91		69.06		92.69	
1,259.47	2,023.71	80,476.55	3,161.99	68,339.95	35,879.20

GEORGIAN BAY SYSTEM

Reserve for Contingencies Account, October 31, 1924

Total provision for contingencies to October 31, 1923.....	\$77,398.42
Added during the year ending October 31, 1924:	
Amounts charged to municipalities as part of the cost of power delivered to them.....	\$14,141.40
Net profits from contracts with sundry power customers.....	3,606.60
Interest at 4% per annum on monthly balances to the credit of the account.....	3,095.93
	20,843.93
	\$98,242.35
Deduct:	
Expenditures during the year ending October 31, 1924.....	16,639.80
Balance carried forward October 31, 1924.....	\$81,602.55



## GEORGIAN BAY SYSTEM

## Sinking Fund to year ending October 31, 1924

Municipality	Sinking fund requirements, the payment of which has been deferred		Sinking fund paid by each municipality as part of the cost of power delivered, together with its proportionate share of other sinking funds provided out of revenues of the system
	For period of	Amount	Amount
		\$ c.	\$ c.
Alliston.....	5 years ending Oct. 31, 1924	7,680.13	1,113.99
Arthur.....	1 " " " "	1,149.08	4,671.28
Barrie.....	2 " " " "	8,051.62	19,374.73
Beaverton.....			7,037.72
Beeton.....	5 " " " "	6,764.31	815.52
Bradford.....	5 " " " "	5,884.60	345.97
Brechin.....			3,139.52
Cannington.....			5,375.10
Chatsworth.....			928.57
Chesley.....	1 " " " "	1,588.36	6,097.67
Coldwater.....	2 " " " "	735.62	2,237.54
Collingwood.....	2 " " " "	11,107.85	41,714.14
Cookstown.....	5 " " " "	2,356.54	499.48
Creemore.....	3 " " " "	1,409.10	2,513.85
Dundalk.....			2,365.63
Durham.....			6,430.74
Elmvale.....	2 " " " "	1,217.85	3,790.98
Elmwood.....	3 " " " "	720.71	463.97
Flesherton.....			1,304.03
Grand Valley.....	1 " " " "	590.43	2,135.12
Hanover.....	1 " " " "	4,539.12	21,281.89
Holstein.....	1 " " " "	212.51	700.95
Kincardine.....	4 " " " "	7,375.66	278.62
Kirkfield.....	5 " " " "	889.31	521.15
Lucknow.....	4 " " " "	3,515.69	127.18
Markdale.....	1 " " " "	372.83	1,525.75
Meaford.....	1 " " " "	923.62	74.41
Midland.....	2 " " " "	6,743.17	37,860.65
Mount Forest.....			6,147.20
Neustadt.....	3 " " " "	3,433.68	1,373.22
Orangeville.....	1 " " " "	1,586.34	5,417.67
Owen Sound.....			33,407.83
Paisley.....	2 " " " "	645.81	38.72
Penetang.....			22,836.88
Port McNicoll.....	3 " " " "	512.55	929.00
Port Perry.....	3 " " " "	1,779.78	407.17
Priceville.....	4 " " " "	408.20	15.67
Ripley.....	4 " " " "	2,978.83	94.84
Shelburne.....	1 " " " "	895.67	3,538.29
Stayner.....	2 " " " "	1,047.06	3,675.29
Sunderland.....			4,089.84
Tara.....	3 " " " "	2,210.59	829.63
Teeswater.....	4 " " " "	3,733.61	205.52
Thornton.....	5 " " " "	1,030.40	230.22
Tottenham.....	5 " " " "	3,901.10	241.14

**GEORGIAN BAY SYSTEM—Continued**  
**Sinking Fund to year ending October 31, 1924**

Municipality or Rural power district	Sinking fund requirements, the payment of which has been deferred.		Sinking fund paid by each municipality as part of the cost of power delivered, together with its proportionate share of other sinking funds provided out of revenues of the system
	For period of	Amount	Amount
		\$ c.	\$ c.
Uxbridge.....	3 years ending Oct. 31, 1924	1,910.15	415.04
Victoria Harbor.....	3 " " " "	707.07	1,343.73
Waubashene.....	3 " " " "	384.80	708.05
Wingham.....	4 " " " "	12,389.10	585.94
Woodville.....			4,421.73
Rural Power Districts—			
Barrie.....			192.32
Cannington No. 1.....			330.81
Cannington No. 2.....			506.32
Elmvale.....			60.91
Flesherton.....			117.48
Mariposa.....			670.94
Markdale.....			191.53
Nottawasaga.....			753.60
Port Perry.....			65.22
Stayner.....			491.31
Walkerton Quarry.....			91.78
Totals.....		113,382.93	269,150.99

**GEORGIAN BAY SYSTEM**  
**Sinking Fund Reserve, October 31, 1924**

Total provision for sinking fund to October 31, 1923:		
Severn system.....	\$108,881.70	
Eugenia system.....	66,902.09	
Wasdell system.....	22,275.82	
		\$198,059.61
On rural lines:		
Eugenia system.....	\$256.21	
Wasdell system.....	1,185.91	
	\$1,442.12	
Less amount deducted in respect of lines sold.....	532.30	
		909.82
Share of administration and service buildings sinking funds to October 31, 1923, apportioned to all municipalities.....		7,149.41
		\$206,118.84
Provided in the year ending October 31, 1924:		
In respect of advances by the Province for the construction of transmission lines and stations:		
By charges against municipalities.....	\$49,260.26	
By charges against municipalities (rural lines).....	143.07	
By charges against private companies.....	5,900.95	
		55,304.28
Interest at 4% per annum on the amount standing at the credit of the account.....		7,958.78
		<u>\$269,381.90</u>

GEORGIAN BAY SYSTEM RURAL LINES

Statement showing the total Sinking Fund requirements in respect of each line, and the total of the Sinking Fund payments with Interest allowed thereon to October 31, 1924

Lines operated by	Sinking fund requirements which have been paid		Interest at 4% per annum allowed on sinking fund payments	Total sinking fund payments and accumulated interest to October 31, 1924
	Period covered	Amount		
		\$ c.	\$ c.	\$ c.
Brechin.....	6 years ending Oct. 31, 1924	81.07	9.14	90.21
Flesherton...	7 " " " 1924	119.91	9.53	129.44
Lucknow.....	8/12 " " " 1924	3.84	.....	3.84
Ripley.....	3 " " " 1924	7.15	0.27	7.42
Totals.....		211.97	18.94	230.91

MUSKOKA

Operating Account for Year

COSTS OF OPERATING AS PROVIDED FOR UNDER SECTIONS 6C AND 23 OF THE ACT

Cost of operating and maintaining the generating plant, transmission lines, stations, etc., including the proportion of administrative expenses chargeable to the operation of this syetm.....	\$13,369.37
Interest on capital investment.....	11,579.09
Provisions for renewal of generating plant, lines, stations, etc.....	2,657.39
Provision for contingencies:	
By charges against municipalities.....	\$1,410.90
By appropriating the net profits on power sold to sundry customers at Muskoka Falls.....	29.22
	1,440.12
Provision for sinking fund;	
By charges against municipalities.....	\$3,795.57
By charges against contracts with sundry customers at Muskoka Falls.....	5.11
	3,800.68
	<u>\$32,846.65</u>



## GEORGIAN BAY SYSTEM RURAL LINES

Statement showing Interest and Sinking Fund charged by the Commission to the Municipalities which operate the respective rural lines for the year ending October 31, 1924

Lines operated by	Capital cost	Interest	Sinking fund	Total interest and sinking fund charged
	\$ c.	\$ c.	\$ c.	\$ c.
Brechin.....	886.84	53.07	15.96	69.03
Flesherton.....	1,857.19	115.15	33.43	148.58
Lucknow.....	367.70	11.74	3.84	15.58
Ripley.....	143.14	7.87	2.58	10.45
Totals.....	3,254.87	187.83	55.81	243.64

## SYSTEM

Ending October 31, 1924

## REVENUE FOR PERIOD

Collected from municipalities.....	\$33,087.17
Power sold to sundry customers at Muskoka Falls.....	53.80
	<u>\$33,140.97</u>
Deduct:	
Amount collected by a certain municipality in excess of the sum required to be paid by it for power supplied in the period....	\$404.18
Less:	
Amount due by a certain municipality, being the difference between the sum paid and the cost of power supplied to it during the period.....	109.86
	<u>294.32</u>
Revenue.....	<u>\$32,846.65</u>
	<u>\$32,846.65</u>

## MUSKOKA

Statement showing the amount to be paid by each Municipality as the Cost (under by the Commission from each Municipality on account of such cost—and ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating	
	To Jan. 1, 1924	To Oct. 31, 1924			Operating, maintenance and administrative expenses	Interest
		\$ c.	\$ c.		\$ c.	\$ c.
Gravenhurst.....	20.00	18.00	43,518.93	451.4	4,289.55	2,333.71
Huntsville.....	June 1/24 25.00	27.00	169,333.66	959.5	9,079.82	9,229.46
Totals—Municipalities.....			212,852.59	1,410.9	13,369.37	11,563.17
Muskoka Falls— (Sundry customers).....			284.01			15.92
Non-operating capital.....			174,178.37			
Grand Totals.....			387,314.97	1,410.9	13,369.37	11,579.09

## MUSKOKA

Statement showing the net Credit or Charge to each Municipality in respect added during the year, also the net amount Credited or Charged to each and the accumulated amount standing as a Credit or

Municipality	Date commenced operating	Net credit or charge at October 31, 1923		Cash receipts and payments on account of such credits and charges made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Gravenhurst.....	Nov., 1915		2,402.88	2,402.88	
Huntsville.....	Sept., 1916		1,527.65	1,527.65	
Totals.....			3,930.53	3,930.53	

SYSTEM

COST OF POWER

Section 23 of the Act) of Power supplied to it by the Commission—the amount received the amount remaining to be credited or charged to each Municipality upon of power supplied to it in the year ending October 31, 1924

costs and fixed charges			Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment		Sinking fund for the years mentioned hereunder charged as part of the cost of power in the year 1923-24
Renewals	Contingencies	Sinking fund			Credited	Charged	
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	
543.98	451.40	783.34	8,401.98	8,292.12	.....	109.86	1923-24
2,109.86	959.50	3,012.23	24,390.87	24,795.05	404.18	.....	1923-24
2,653.84	1,410.90	3,795.57	32,792.85	33,087.17	404.18	109.86	.....
3.55	.....	5.11	24.58	53.80	*29.22	.....	1923-24
.....	.....	.....	.....	.....	.....	.....	.....
2,657.39	1,410.90	3,800.68	32,817.43	33,140.97	.....	.....	.....

\*NOTE—Transferred to the credit of Contingency Reserve.

SYSTEM

CREDIT OR CHARGE

of power supplied to it to October 31, 1923, the cash payments, and interest Municipality in respect of power supplied in the year ending October 31, 1924, Charge to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	18.59	.....	109.86	.....	128.45
.....	39.67	404.18	.....	364.51	.....
.....	58.26	404.18	109.86	364.51	128.45



MUSKOKA SYSTEM

Reserve for Renewals Account, October 31, 1924

Total provision for renewals to October 31, 1923.....		\$19,665.78
Deduct expenditures to October 31, 1923.....		1,180.12
		<hr/>
Balance brought forward October 31, 1923.....		\$18,485.66
Added during the year ending October 31, 1924:		
Amount charged to municipalities as part of the cost of power delivered to them.....	\$2,653.84	
Provision against equipment employed in respect of contracts with sundry companies.....	3.55	
Interest at 4% per annum on monthly balances to the credit of the account.....	739.43	
Renewals reserve provided on second-hand equipment purchased..	37.91	
		<hr/>
		3,434.73
		<hr/>
		\$21,920.39
Expenditures during the year ending October 31, 1924.....		14.93
		<hr/>
Balance carried forward October 31, 1924.....		\$21,905.46
		<hr/> <hr/>

MUSKOKA SYSTEM

Sinking Fund to year ending October 31, 1924

Municipality	Sinking fund requirements, the payment of which has been deferred	Sinking fund paid by each municipality as part of the cost of power delivered, together with its proportionate share of other sinking funds provided out of revenues of the system	
		For period of	Amount
			Amount
			<hr/>
		\$ c.	\$ c.
Gravenhurst.....	1 year ending Oct. 31, 1924		3,493.88
Huntsville.....		3,038.20	10,295.17
Totals.....		3,038.20	13,789.05

## MUSKOKA SYSTEM

## Reserve for Contingencies Account, October 31, 1924

Balance brought forward October 31, 1923.....		\$5,623.50
Added during the year ending October 31, 1924:		
Amounts charged to municipalities as part of the cost of power delivered to them.....	\$1,410.90	
Net profits from contracts with sundry power customers.....	29.22	
Interest at 4% per annum on monthly balances at the credit of the account.....	224.94	
		<u>1,665.06</u>
		\$7,288.56
Expenditures during the year ending October 31, 1924.....		<u>700.95</u>
Balance carried forward October 31, 1924.....		<u>\$6,587.61</u>

## MUSKOKA SYSTEM

## Sinking Fund Reserve, October 31, 1924

Total provision for sinking fund to October 31, 1923.....		\$8,682.51
Share of administration and service buildings sinking funds to October 31, 1923, apportioned to all municipalities.....		958.56
		<u>\$9,641.07</u>
Provided in the year ending October 31, 1924:		
In respect of advances by the Province for the construction of transmission lines and stations:		
By charges against municipalities.....	\$3,795.57	
By charges against private companies.....	5.11	
		<u>3,800.68</u>
Interest at 4% per annum on the amount standing at the credit of the account.....		347.30
		<u>\$13,789.05</u>

## ST. LAWRENCE

## Operating Account for Year

## COSTS OF OPERATION AS PROVIDED FOR UNDER SECTIONS 6C AND 23 OF THE ACT

Power purchased.....		\$80,015.22
Costs of operating and maintaining the generating plant, transmission lines, stations, etc., including the proportion of administrative expenses chargeable to the operation of the system.....		34,937.52
Interest on capital investment.....		58,615.94
Provision for renewal of generating plant, lines, and stations, etc.....		21,489.11
Provision for contingencies:		
By charges against municipalities.....	\$2,425.70	
By appropriating the net profit on power sold to private companies.....	5,884.88	
		8,310.58
Provisions for sinking fund:		
By charges against municipalities.....	\$7,626.14	
By charges against contracts with private companies which purchased power.....	7,294.84	
		14,920.98
		<u>\$218,289.35</u>

## ST. LAWRENCE SYSTEM—

## Operating Account for year ending October 31, 1924, included in above account

Power purchased from the Commission.....	\$3,666.06
Costs of operating and maintaining transmission lines and equipment.....	2,082.96
Interest on capital investment.....	1,837.11
Provision for renewals of lines and equipment.....	1,139.27
Provision for sinking fund for repayment of cash advances.....	573.55
	<u>\$9,298.95</u>



**SYSTEM****Ending October 31, 1924****REVENUE FOR PERIOD**

Collected from municipalities.....	\$124,419.37	
Power sold to private companies.....	108,910.91	
	<u>\$233,330.28</u>	
Deduct:		
Amounts collected from certain municipalities in excess of the sum required to be paid by them for power supplied in the period	\$16,659.68	
Less:		
Amounts due by certain municipalities being the difference be- tween sums paid and the cost of power supplied to them in the period.....	1,618.75	15,040.93
		<u><u>\$218,289.35</u></u>

**RURAL POWER DISTRICTS****of St. Lawrence System. For detail report see pages 206-207.**

Revenue collected from rural power districts.....	\$9,462.74	
Add—		
Deficit on operation of certain rural power districts.....	\$80.41	
Deduct—		
Surplus on operation of certain rural power districts.....	244.20	163.79
		<u><u>\$9,298.95</u></u>

## ST. LAWRENCE

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such cost—upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To June 30, 1924	To Oct. 31, 1924				Operating, maintenance and administrative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Alexandria...	80.00	80.00	113,125.81	217.5	2,802.10	2,197.47	6,462.53
Apple Hill...	85.00	80.00	10,635.03	26.7	343.98	403.58	606.58
Brockville...	40.00	38.00	236,999.29	1,395.4	17,977.28	7,077.21	12,576.74
Chesterville...	65.00	60.00	63,839.09	193.3	2,490.33	1,609.69	3,452.69
Lancaster...	97.00	97.00	37,567.73	27.2	350.42	890.48	2,158.86
Martintown...	75.00	75.00	5,467.93	14.6	188.09	414.63	311.34
Maxville....	86.00	86.00	41,500.05	56.1	722.75	626.33	2,379.97
Prescott....	45.00	40.00	45,567.70	279.0	3,594.42	1,823.73	2,410.78
Williamsburg	75.00	65.00	7,399.50	21.9	282.14	420.20	402.39
Winchester...	65.00	60.00	29,718.41	106.1	1,366.91	1,271.73	1,597.62
Rural Power Districts—							
Brockville—Elizabethtown twp.			5,687.58	31.1	400.67	186.05	274.42
Chesterville—Winchester twp..			2,443.92	7.4	95.34	52.38	133.29
Martintown—Charlottenburg tp			5,717.54	10.4	133.99	189.60	309.64
Prescott—Edwardsburg twp....			6,369.70	39.0	502.45	195.97	336.03
Totals—Municipalities.....			591,820.54	2,337.8	30,118.42	16,735.05	32,359.50
Totals—Rural Power Districts...			20,218.74	87.9	1,132.45	624.00	1,053.38
Totals—Companies.....			406,090.25	3,785.1	48,764.35	15,495.51	23,365.95
Grand Totals.....			1,018,129.53	6,210.8	80,015.22	32,854.56	56,778.83

The Commission supplies power to and operates the rural power districts. Revenue derived therefrom is applied to meet the cost of providing the power generated and transmitted to each of the rural power districts as shown in above table of costs.

The results of the operations in rural power districts are shown in operating reports in table below.

## ST. LAWRENCE SYSTEM—

## Operating Report for Year

Name of rural power district and townships included therein	Total capital investment in each district and the amount of Government grant applied thereto			Total cost of power for year as provided to be paid under section 23 of Act*
	Total	Government grant	Balance	
	\$ c.	\$ c.	\$ c.	\$ c.
Brockville—Elizabethtown twp.....	19,188.25	9,594.13	9,594.12	1,108.39
Chesterville—Winchester twp.....	4,155.50	2,077.75	2,077.75	381.28
Martintown—Charlottenburg twp.....	8,497.54	3,325.74	5,171.80	860.88
Prescott—Edwardsburg twp.....	25,763.73	12,881.86	12,881.87	1,315.51
Totals.....	57,605.02	27,879.48	29,725.54	3,666.06

\*See "cost of power" table above.

## SYSTEM

## COST OF POWER

Section 23 of the Act) of Power supplied to it by the Commission, the amount and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1924

costs and fixed charges			Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment		Sinking fund for the years mentioned hereunder charged as part of the cost of power in the year 1923-24
Renewals	Contingencies	Sinking Fund			Credited	Charged	
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	
2,262.51	217.50		13,942.11	17,397.62	3,455.51		
212.70	26.70		1,593.54	2,096.83	503.29		
4,739.98	1,395.40	4,053.62	47,820.23	54,567.24	6,747.01		1922-23
1,276.77	193.30	1,149.10	10,171.88	12,097.62	1,925.74		1923-24
751.36	27.20		4,178.32	2,639.98		1,538.34	
109.36	14.60		1,038.02	1,096.24	58.22		
831.27	56.10		4,616.42	4,855.24	238.82		
911.35	279.00	820.22	9,839.50	11,970.77	2,131.27		1923-24
150.41	21.90	130.77	1,407.81	1,562.24	154.43		1923-24
594.37	106.10	534.93	5,471.66	6,672.85	1,201.19		1923-24
113.76	31.10	102.39	1,108.39	1,108.39			
48.88	7.40	43.99	381.28	381.28			
114.34	10.40	102.91	860.88	860.88			
127.40	139.00	114.66	1,315.51	1,315.51			
11,840.08	2,337.80	6,688.64	100,079.49	114,956.63	16,415.48	1,538.34	
404.38	87.90	363.95	3,666.06	3,666.06			
8,105.38		7,294.84	103,026.03	108,910.91	*5,884.88		
20,349.84	2,425.70	14,347.43	206,771.58	227,533.60			

\* Transferred to the credit of Contingency Reserve.

## RURAL POWER DISTRICTS

## RURAL OPERATING

Ending October 31, 1924

Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Sinking fund	Total cost	Revenue	Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
765.55	564.89	376.85	176.36	2,992.04	3,114.30	122.26	
88.63	128.31	83.11	40.05	721.38	761.89	40.51	
344.67	337.34	168.51	105.33	1,816.73	1,736.32		80.41
884.11	806.57	510.80	251.81	3,768.80	3,850.23	81.43	
2,082.96	1,837.11	1,139.27	573.55	9,298.95	9,462.74	244.20	80.41



## ST. LAWRENCE

Statement showing the net Credit or Charge to each Municipality in respect of power year, also the net amount Credited or Charged to each Municipality in respect amount standing as a Credit or Charge

Municipality or Rural power district	Date commenced operating	Net credit or charge at October 31, 1924		Cash receipts and payments on account of such credits and charges made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Alexandria.....	Jan., 1921		1,461.94		
Apple Hill.....	April, 1921		113.95	113.95	
Brockville.....	April, 1915	8,160.90			8,160.90
Chesterville.....	April, 1914	1,611.06			1,611.06
Lancaster.....	May, 1921		5,295.32		
Martintown.....	May, 1921	31.25			31.25
Maxville.....	Feb., 1921		3,328.05		
Prescott.....	Dec., 1913	2,307.54			2,307.54
Williamsburg.....	April, 1915	364.69			364.69
Winchester.....	Jan., 1914	2,706.22			2,706.22
Rural Power Districts—					
Brockville.....	July, 1922	1,341.47			
Chesterville.....	May, 1922		38.48		
Martintown.....	Jan., 1922		900.29		
Prescott.....	June, 1922		194.10		
Totals.....		16,523.13	11,332.13	113.95	15,181.66

## ST. LAWRENCE SYSTEM

## Reserve for Renewals Account, October 31, 1924

Total provisions for renewals to October 31, 1923.....	\$96,460.02
Deduct expenditures to October 31, 1923.....	8,664.67
Balance brought forward October 31, 1923.....	\$87,795.35
Added during the year ending October 31, 1924:	
Amounts charged to municipalities as part of the cost of power delivered to them.....	\$13,383.73
Provision against equipment employed in respect of contracts with sundry companies.....	8,105.38
Interest at 4% per annum on monthly balances to the credit of the account.....	3,511.81
	25,000.92
	\$112,796.27
Expenditures during the year ending October 31, 1924.....	539.60
Balance carried forward to October 31, 1924.....	\$112,256.67

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1923, the cash payments, and interest added during the of power supplied in the year ending October 31, 1924, and the accumulated to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	58.48	3,455.51	.....	1,935.09	.....
.....	2.62	503.29	.....	500.67	.....
162.29	.....	6,747.01	.....	6,909.30	.....
31.72	.....	1,925.74	.....	1,957.46	.....
.....	211.81	.....	1,538.34	.....	7,045.47
0.71	.....	58.22	.....	58.93	.....
.....	133.12	238.82	.....	.....	3,222.35
46.66	.....	2,131.27	.....	2,177.93	.....
7.31	.....	154.43	.....	161.74	.....
42.55	.....	1,201.19	.....	1,243.74	.....
53.66	.....	122.26	.....	1,517.39	.....
.....	1.54	40.51	.....	.49	.....
.....	36.01	.....	80.41	.....	1,016.71
.....	7.76	81.43	.....	.....	120.43
344.90	451.34	16,659.68	1,618.75	16,462.74	11,404.96

ST. LAWRENCE SYSTEM

Reserve for Contingencies Account, October 31, 1924

Total provision for contingencies to October 31, 1923.....	\$22,868.03
Added during the year ending October 31, 1924:	
Amounts charged to municipalities as part of the cost of power delivered to them.....	\$2,425.70
Net profits from contracts with sundry power customers.....	5,884.88
Interest at 4% per annum on monthly balances to the credit of the account.....	914.72
	9,225.30
	\$32,093.33
Balance carried forward October 31, 1924.....	\$32,093.33

ST. LAWRENCE SYSTEM

Sinking Fund to year ending October 31, 1924

Municipality or Rural power district	Sinking fund requirements, the payment of which has been deferred		Sinking fund paid by each municipality as part of the cost of power delivered, together with its proportionate share of other sinking funds provided out of revenues of the system
	For period of	Amount	Amount
		\$ c.	\$ c.
Alexandria.....	4 years ending Oct. 31, 1924	7,335.00	1,923.60
Apple Hill.....	4 " " " "	619.99	215.13
Brockville.....	1 " " " "	4,265.98	34,872.77
Chesterville.....			8,330.33
Lancaster.....	4 " " " "	2,319.13	227.62
Martintown.....	4 " " " "	337.12	123.92
Maxville.....	4 " " " "	2,634.33	471.52
Prescott.....	1 " " " "		7,744.99
Williamsburg.....	1 " " " "	132.34	700.42
Winchester.....			4,151.67
Rural Power Districts—			
Brockville.....			1,386.55
Chesterville.....			253.11
Martintown.....			622.65
Prescott.....			1,096.68
Totals.....		17,643.89	62,120.96

RIDEAU

Operating Account for Year

COSTS OF OPERATING AS PROVIDED FOR UNDER SECTIONS 6C AND 23 OF THE ACT

Power purchased.....		\$6,660.36
Costs of operating and maintaining the generating plant, transmission lines, stations, etc., including the proportion of administrative expenses chargeable to the operation of the system.....		23,686.41
Interest on capital investment.....		66,444.88
Provision for renewal of generating plant, lines, stations, etc.....		10,812.05
Provision for contingencies:		
By charges against municipalities.....	\$2,361.10	
By appropriating the net profit on power sold to private company..	2,132.44	
		4,493.54
Provision for sinking fund:		
By charges against municipalities.....	\$5,247.43	
By charges against contracts with private company which purchased power.....	3,007.91	
		8,255.34
		<u>\$120,534.58</u>



## ST. LAWRENCE SYSTEM

## Sinking Fund Reserve, October 31, 1924

Total provision for sinking fund to October 31, 1923.....	\$44,283.34
Share of administration and service buildings sinking funds to October 31, 1923, apportioned to all municipalities.....	1,145.31
	<hr/> \$45,428.65
Provided in the year ending October 31, 1924:	
In respect of advances by the Province for the construction of transmission lines and stations:	
By charges against municipalities.....	\$7,626.14
By charges against private companies.....	7,294.84
	<hr/> 14,920.98
Interest at 4% per annum on the amounts standing at the credit of the account.....	1,771.33
	<hr/> <hr/> \$62,120.96

## SYSTEM

## ending October 31, 1924

## REVENUE FOR PERIOD

Collected from municipalities.....	\$105,225.34
Power sold to private company.....	21,787.99
	<hr/> \$127,013.33
Deduct:	
Amounts collected from certain municipalities in excess of the sums required to be paid by them for power supplied in the year....	\$8,228.15
Less:	
Amounts due by certain municipalities, being the difference between sums paid and the cost of power supplied to them in the year..	1,749.40
	<hr/> 6,478.75
Revenue.....	<hr/> <hr/> \$120,534.58

## RIDEAU

Statement showing the amount to be paid by each Municipality as the Cost received by the Commission from each Municipality on account of such cost—upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To June 1 1924,	To Oct. 31, 1924				Operating maintenance and administrative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Carleton Pl'e	44.00	46.50	337,021.49	857.7	2,007.73	6,787.60	20,699.47
Kemptville..	60.00	60.00	57,238.55	115.	269.19	1,709.57	3,515.91
Lanark.....	75.00	75.00	22,636.75	33.5	78.42	568.83	1,390.67
Perth.....	45.00	47.50	206,022.64	500.7	1,172.05	4,241.20	12,653.97
Smiths Falls.	40.00	40.00	291,718.90	854.2	1,999.54	6,987.48	17,915.44
Totals—Municipalities.....			915,638.33	2,361.1	5,526.93	20,294.68	56,175.46
Totals—Companies.....			167,215.78	484.2	1,133.43	3,573.73	10,269.42
Non-operating capital.....			59.29				
Grand Totals.....			1,081,913.40	2,845.3	6,660.36	23,868.41	66,444.88

## RIDEAU

Statement showing the net Credit or Charge to each Municipality in respect of power year, also the net amount Credited or Charged to each Municipality in respect amount standing as a Credit or Charge

Municipality	Date commenced operating	Net credit or charge at October 31, 1923		Cash receipts and payments on account of such credits and charges made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Carleton Place.....	May, 1919		2,026.90	2,026.90	
Kemptville.....	Dec., 1921	113.97			113.97
Lanark.....	Sept., 1921	0.68			0.68
Perth.....	Feb., 1919		1,295.02	1,295.02	
Smiths Falls.....	Sept., 1919		1,899.17	1,899.17	
Totals.....		114.65	5,221.09	5,221.09	114.65

SYSTEM

COST OF POWER

(under Section 23 of the Act) of Power supplied to it by the Commission—the amount and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1924

costs and fixed charges			Total cost of power for year as provided to be paid under section 23 of Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment		Sinking fund for the years mentioned hereunder charged as part of the cost of power in the year 1923-24
Renewals	Contingencies	Sinking fund			Credited	Charged	
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	
3,368.26	857.70		33,720.76	38,609.44	4,888.68		
572.12	115.00		6,181.79	6,901.00	719.21		
226.29	33.50		2,297.71	2,514.36	216.65		
2,059.08	500.70		20,627.00	23,030.61	2,403.61		
2,915.24	854.20	5,247.43	35,919.33	34,169.93		1,749.40	1923-24
9,140.99	2,361.10	5,247.43	98,746.59	105,225.34	8,228.15	1,749.40	
1,671.06		3,007.91	19,655.55	21,787.99	*2,132.44		
10,812.05	2,361.10	8,255.34	118,402.14	127,013.33			

\*NOTE—Transferred to the credit of Contingency Reserve.

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1923, the cash payments, and interest added during the of power supplied in the year ending October 31, 1924, and the accumulated to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	42.42	4,888.68		4,846.26	
2.27		719.21		721.48	
0.01		216.65		216.66	
	46.41	2,403.61		2,357.20	
	38.11		1,749.40		1,787.51
2.28	126.94	8,228.15	1,749.40	8,141.60	1,787.51



RIDEAU SYSTEM

Reserve for Renewals Account

Total provision for renewals to October 31, 1923.....	\$46,053.03
Deduct expenditures to October 31, 1923.....	642.66
Balance brought forward, October 31, 1923.....	<u>\$45,410.37</u>
Added during the year ending October 31, 1924:	
Amounts charged to municipalities as part of the cost of power delivered to them.....	\$9,140.99
Provision against equipment employed in respect of contracts with private company.....	1,671.06
Interest at 4% per annum on monthly balances to the credit of the account.....	<u>1,816.41</u>
	12,628.46
	<u>\$58,038.83</u>
Expenditures during the year ending October 31, 1924.....	7.29
Balance carried forward October 31, 1924.....	<u><u>\$58,031.54</u></u>

RIDEAU SYSTEM

Sinking Fund to year ending October 31, 1924

Municipality	Sinking fund requirements, the payment of which has been deferred	Sinking fund paid by each municipality as part of the cost of power delivered, together with its proportionate share of other sinking funds provided out of revenues of the system	
		For period of	Amount
		Amount	Amount
Carleton Place.....	1 year ending Oct. 31, 1924	\$ 6,062.87	\$ 1,471.44
Kemptville.....	1 " " " "	1,029.80	197.29
Lanark.....	1 " " " "	407.33	57.47
Perth.....	1 " " " "	3,706.35	858.98
Smiths Falls.....			6,712.86
Totals.....		11,206.35	9,298.04

## RIDEAU SYSTEM

## Reserve for Contingencies Account

Balance brought forward, October 31, 1923.....		\$11,657.07
Added during the year ending October 31, 1924:		
Amounts charged to municipalities as part of the cost of power delivered to them.....	\$2,361.10	
Net profit from contract with private company.....	2,132.44	
Interest at 4% per annum on monthly balances to the credit of the account.....	466.28	
		<u>4,959.82</u>
Balance carried forward, October 31, 1924.....		<u><u>\$16,616.89</u></u>

## RIDEAU SYSTEM

## Sinking Fund Reserve, October 31, 1924

Share of administration and service buildings sinking funds to October 31, 1923, apportioned to all municipalities.....		\$1,042.70
Provided in the year ending October 31, 1924:		
In respect of advances by the Province for the construction of transmission lines and stations:		
By charges against municipalities.....	\$5,247.43	
By charges against private companies.....	3,007.91	
		<u>8,255.34</u>
		<u><u>\$9,298.04</u></u>

## THUNDER BAY

## Operating Account for Year

## COST OF OPERATION

Costs of operating and maintaining the generating plant, transmission lines, stations, etc., including the proportion of administrative expenses chargeable to the operation of this system . . .	\$68,678.54	
Interest on capital investment . . . . .	450,721.42	
		\$519,399.96
Surplus (applicable to Contingencies and Renewals Reserves) . . . . .		52,560.09
		<u>\$571,960.05</u>

## HYDRO-ELECTRIC POWER

## Account with the Provincial Treasurer

## APRIL 31, 1924:

Cheque to cover interest for six months, November 1, 1923, to April 30, 1924 \$3,618,934.51

## OCTOBER 31, 1924:

Cheque to cover interest for six months, May 1, 1924, to October 31, 1924 . 3,722,793.21

\$7,341,727.72

## NOVEMBER 1, 1923, to OCTOBER 31, 1924:

Provincial expenditures . . . . . 118,932.77

Balance carried down . . . . . 138,657,796.71

\$146,118,457.20



## SYSTEM

Ending October 31, 1924

## REVENUE FOR PERIOD

Revenue from city of Port Arthur.....	\$365,422.57
Power sold to private companies.....	206,537.48

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\$571,960.05

## COMMISSION OF ONTARIO

for the Year Ending October 31, 1924

OCTOBER 31, 1924:

Sundry cash advances:

General account.....	\$55,224,519.68
Chippawa Development account.....	68,446,987.31
Central Ontario system.....	14,265,020.30
Provincial expense account.....	272,580.61

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\$138,209,107.90

Deferred interest in respect to Nipigon system to October 31, 1923..... 567,621.58

Interest on balances to October 31, 1924..... 7,341,727.72

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\$146,118,457.20

NOVEMBER 1, 1924:

Balance.....\$138,657,796.71

## SANDWICH, WINDSOR AND

## Operating Account for the

## EXPENDITURE

Transportation expenses.....	\$249,234.61	
Maintenance—way and structures.....	63,469.37	
Maintenance—equipment.....	89,308.15	
Power.....	93,093.58	
General operating and management expenses.....	43,108.25	
Proportion of administrative and accounting expenses of the Commission chargeable to the operation of the Railway.....	15,367.69	
Taxes.....	1,089.48	
Insurance—Fire and Liability.....	33,297.14	
Written off valuation and other expenses re purchase of the railways and re issue of bonds.....	1,779.54	
Total operating expenses.....		\$589,747.81
Interest on debentures and bank borrowings.....		171,178.97
		<u>\$760,926.78</u>
Reserve for renewal of road and equipment provided to extent of net revenue available.....		13,980.33
		<u><u>\$774,907.11</u></u>

## GUELPH RADIAL

## Operating Account for the

## EXPENDITURE

Transportation expense.....	\$21,776.08	
Maintenance—way and structures.....	7,731.33	
Maintenance—equipment.....	12,663.41	
Power.....	9,933.48	
General operating and management expenses.....	9,179.54	
Proportion of administrative and accounting expenses of the Commission chargeable to the operation of the Railway.....	2,329.52	
Insurance—Fire and Liability.....	4,195.80	
Taxes.....	2,644.72	
Written off valuation and other expenses re purchase by the Commission.....	256.30	
Total operating expenses.....		\$70,710.18
Interest on debentures and bank borrowings.....		17,603.58
Provision for instalments payable to city of Guelph on May 1, 1924 and November 1, 1924 under purchase agreement:		
Interest for year.....	\$6,105.26	
On account of principal.....	5,594.74	
		<u>11,700.00</u>
		<u><u>\$100,013.76</u></u>

## AMHERSTBURG RAILWAY

Year ending October 31, 1924

## REVENUE

Passenger.....	\$711,480.62
Freight and express.....	46,293.30
Miscellaneous.....	17,133.19

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\$774,901.11

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## RAILWAY

Year ending October 31, 1924

## REVENUE

Operating revenue.....	\$79,081.15
Net deficit for year after provision for instalments of principal and interest payable to city of Guelph.....	20,932.61

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\$100,013.76

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## TORONTO AND YORK

## Combined Operating Account for

## EXPENDITURE

	Metropolitan		Scarboro		Mimico		Total	
	\$	c.	\$	c.	\$	c.	\$	c.
Transportation expenses.....	155,872.	98	39,823.	31	87,593.	92	283,290.	21
Maintenance—Way and structures.....	101,965.	92	14,724.	28	22,516.	03	139,206.	23
Maintenance—Equipment.....	65,717.	12	10,367.	38	18,221.	06	94,305.	56
Power costs.....	104,435.	90	22,332.	09	35,674.	26	162,442.	25
General operating and management expenses.....	41,749.	91	6,672.	21	13,195.	06	61,617.	18
Proportion of the administrative and accounting expenses of the Commission chargeable to the operation of the railways.....	14,945.	82	2,075.	22	4,148.	51	21,169.	55
Taxes.....	10,557.	05	663.	12	1,933.	57	13,153.	74
Insurance—Fire and liability.....	29,005.	09	4,652.	87	9,597.	39	43,235.	35
Written off valuation and other expenses re purchase by the Commission.....	3,371.	92	432.	66	480.	06	4,284.	64
Total operating expenses.....	527,621.	71	101,743.	14	193,359.	86	822,724.	71
Interest: On bonds, \$2,375,000.00 issued by the Commission, to cover the purchase price of the railways.....	112,500.	00	14,400.	00	15,600.	00	142,500.	00
Bank and other interest.....	33,125.	65	1,596.	66	3,658.	16	38,380.	47
	673,247.	36	117,739.	80	212,618.	02	1,003,605.	18

## RADIAL RAILWAYS

Year ending October 31, 1924

	REVENUE			
	Metropolitan	Scarboro	Mimico	Total
	\$ c.	\$ c.	\$ c.	\$ c.
Passenger.....	351,712.88	84,724.25	176,178.37	612,615.50
Freight.....	115,536.84	.....	.....	115,536.84
Rentals of property—including amount charged Niagara system for use of poles.....	15,427.13	778.63	279.92	16,485.68
Miscellaneous.....	8,269.74	1,553.53	602.55	10,425.82
	490,946.59	87,056.41	177,060.84	755,063.84
Net deficit for the year after payment of interest on the bonds issued by the Commission to cover its investment in the railways.....	182,300.77	30,683.39	35,557.18	248,541.34
	<u>673,247.36</u>	<u>117,739.80</u>	<u>212,618.02</u>	<u>1,003,605.18</u>





## CENTRAL ONTARIO AND TRENT SYSTEM AND NIPISSING SYSTEM

The following balance sheet and operating account relate to the systems known as "Central Ontario and Trent" and "Nipissing," which together serve electrical energy to fifty-seven municipalities and companies. The Central Ontario and Trent system extends from the municipality of Whitby on the west to and including the city of Kingston on the east and as far north as Lindsay. The Nipissing system supplies the town of North Bay and vicinity. These systems were purchased by the provincial Government, as at the 1st of March, 1916, from the Electric Power Company, Limited, which owned or controlled the capital stock of twenty-two subsidiary companies, the purchase price being the sum of \$8,350,000, payable in ten years, secured by a government bond issue bearing interest at four per cent per annum.

Since the acquisition of these properties, and their transfer to the Commission to operate in trust for the Government, it has been found necessary to enlarge, extend and improve the systems to meet the increasing demands for electrical service.

The Central Ontario system and the Trent system both receive their electrical energy from the same sources of power supply through the same main transmission network, and from the standpoint of power development and electrical operation are regarded as a unit and now known as the Central Ontario and Trent system. It may be explained that after the Central Ontario system was purchased by the Provincial Government, a number of municipalities in Central Ontario, from time to time, applied to the Hydro-Electric Power Commission for power to be supplied under the provisions of the Power Commission Act. The municipalities in central Ontario which thus enter into direct relationship with the Hydro-Electric Power Commission are for purposes of financial administration grouped in what is termed the "Trent" system.

The operation of these two systems—the "Central Ontario and Trent" and the "Nipissing"—entails the generation, transformation and transmission of electrical energy to thirty-seven municipalities and twenty companies, and in addition thereto the operation of three gas plants—at Peterborough, Oshawa and Cobourg, the Cobourg waterworks, the Peterborough street railway, the Campbellford pulp mill and certain pulpwood limits connected therewith.

With the exception of fourteen municipalities, namely, Bloomfield, Have-lock, Kingston, Lakefield, Madoc, Marmora, Norwood, Normee, Peterborough, Picton, Stirling, Warkworth, Wellington and Whitby, ten of which were connected to the system subsequent to the date of purchase, and constitute the Trent system, the whole property, local and otherwise, is operated and maintained by the Commission. Although the ownership of the whole plant is vested in the province (except the fourteen local systems of the municipalities mentioned), precisely the same methods, with respect to the control of rates, operation, maintenance, and provision for renewal of plant and equipment, are applied, as appertain to the other systems controlled and operated by the Commission.

An annual adjustment of the system's capital cost and expenses is made and those municipalities operating their own utilities and which have contracts for power to be supplied at cost, receive an additional charge or credit—as the case may be—on account of power cost as ascertained by this adjustment, just as is done in the case of the municipalities comprising the Niagara system and other systems.

CENTRAL ONTARIO  
(ALSO NIPISSING)  
Operated by the Hydro-Electric  
Statement of Assets and

ASSETS		
Central Ontario:		
Power developments and hydraulic rights.....	\$7,392,892.15	
Transformer stations.....	730,509.00	
Transmission lines.....	1,678,347.55	
		\$9,801,748.70
Local Utilities—Electric, gas, water and street railway.....		2,763,369.30
Service buildings.....		17,477.57
Nipissing:		
Power development and standby plant.....	\$687,016.08	
Transformer stations.....	34,140.12	
Transmission lines.....	46,940.05	
		768,096.25
Local Utilities—Electric.....		213,579.18
Service buildings.....		6,323.19
Rural Power Districts.....	\$95,157.94	
Less Government bonus.....	47,578.97	
		47,578.97
Pulp mill and pulpwood areas.....		537,248.89
		\$14,155,422.05
Sinking Fund Investments:		
In securities of the Province of Ontario—at par value.....	\$51,000.00	
Interest accrued thereon.....	1,002.08	
		52,002.08
Reserve Fund Investments:		
In securities of the Province of Ontario—at par value.....	\$292,000.00	
In securities of (or guaranteed by) the Dominion of Canada		
—at par value.....	700,000.00	
Interest accrued thereon.....	17,650.00	
		1,009,650.00
Other Investments:		
Debentures of the town of Trenton re sale of waterworks...	\$18,850.05	
Debentures of the town of Napanee re sale of property and		
water privileges.....	12,499.15	
Interest accrued thereon.....	1,221.19	
		32,570.39
Inventories:		
Tools and equipment.....	\$66,312.46	
Material and supplies.....	254,298.55	
		320,611.01
Accounts Receivable:		
Power and pulp mill accounts.....	\$96,038.31	
Consumers' supply—sales accounts.....	20,785.43	
Consumers' light and power accounts.....	36,898.58	
	\$153,722.32	
Less: Reserve for doubtful accounts.....	4,652.73	
		149,069.59
Advances on contracts for pulpwood.....		6,643.04
Balances due by certain municipalities in respect of the cost of power supplied to		
them, as provided to be paid under their contracts with the Commission...		35,683.35
Cash in banks.....		4,694.20
Hydro-Electric Power Commission of Ontario—current account.....		274,992.00
Expenses and insurance prepaid.....		5,181.22
Premium (less discounts) on purchase of securities—less portion written off....		14,683.20
		\$16,061,202.13

## AND TRENT SYSTEM

## SYSTEM)

## Power Commission of Ontario

## Liabilities, October 31, 1924

LIABILITIES		
Provincial Treasurer:		
Purchase price of System.....	\$8,350,000.00	
Debentures issued in connection with purchase of Bruton Township pulpwood area.....	225,000.00	
Cash advances.....	5,690,020.30	
		\$14,265,020.30
Debentures assumed in respect of rural lines in Whitby and East Whitby townships.....	\$14,818.19	
Interest accrued thereon.....	685.60	
		15,503.79
Accounts payable and accrued charges.....	\$34,667.91	
Consumers' deposits.....	19,369.04	
Unearned water rates.....	2,492.00	
		56,528.95
Balances due to certain municipalities in respect of amounts paid by them in excess of the cost of power supplied to them as provided to be paid under their contracts with the Commission.....		15,107.24
Reserves for Sinking Funds:		
For retirement of bonds issued in purchase of Bruton Township pulpwood areas.....	\$44,928.36	
For repayment of cost of mill at Bancroft.....	6,873.24	
		51,801.60
Reserve for renewals.....		1,497,644.38
Reserve for contingencies.....		149,330.34
Surplus.....		10,265.53
Contingent Liabilities:		
In respect of contracts entered into for works under construction.....		

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\$16,061,202.13



## CENTRAL ONTARIO

## (ALSO NIPISSING)

## Operating Account for the Year

## COST OF OPERATION

## Power Department:

Power purchased.....	\$11,272.86	
Cost of operating and maintaining generating plants, transmission lines, stations, rural power districts, etc., including rentals of water powers, and the proportion of administrative expenses chargeable to the operation of the Power Department.....	439,882.39	
Interest on capital investment.....	426,722.64	
Provision for renewal of generating plants, lines, stations, rural power districts, etc.....	84,872.77	
Provision for contingencies.....	40,055.60	
		\$1,002,806.26

## Utilities:

Cost of operating and maintaining electric light distribution systems, gas systems, water system, and the Peterborough Street Railway, including all materials and supplies purchased, and the proportion of administrative expenses chargeable to the operation of these utilities.....	\$431,195.60	
Interest on capital investment.....	132,401.98	
Provision for renewal of plants and equipment.....	50,056.51	
		613,654.09

## Total cost of operation of Power Department and Utilities.....

\$1,616,460.35

## Net loss for year on operation of pulp mill and Bruton Township pulpwood areas.....

35,269.00

## Net operating surplus for year.....

\$1,651,729.35

132,945.48

\$1,784,674.83

## Surplus

## Debit balance brought forward from October, 1923.....

\$122,679.95

## Balance, as shown on statement of Assets and Liabilities.....

10,265.53

\$132,945.48

## AND TRENT SYSTEM

## SYSTEM)

ending October 31, 1924

## REVENUE FOR PERIOD

Power sold to private companies and certain municipalities. . . .	\$313,395.37	
Power supplied to certain other municipalities at cost in accordance with their contracts with the Commission. . . . .	156,440.75	
Power supplied, at cost, to the Peterborough Street Railway and the Campbellford Pulp Mill, and works under construction. . . . .	53,750.23	
		\$523,586.35
Light and power sold to consumers on the nineteen electric light distribution systems. . . . .	\$917,283.28	
Gas sold to consumers on three gas systems, and sales of by-products. . . . .	204,199.43	
Water sold to consumers on one water system. . . . .	36,060.48	
Revenue from Peterboro Street Railway. . . . .	80,683.16	
		1,238,226.35
Total revenue from Power Department and Utilities. . . .		\$1,761,812.70
Net profit on sale of equipment and supplies. . . . .		22,862.13

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\$1,784,674.83

## Account

Net operating surplus for the year ending October 31, 1924. . . .	\$132,945.48
	<hr/>
	\$132,945.48
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## CENTRAL ONTARIO

Statement showing the amount to be paid by each of the following Municipalities received by the Commission from each Municipality on account of such ascertaining, by annual adjustment, the actual cost of power

Municipality	Interim rates per horse-power collected by Commission during year	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating	
				Operating, maintenance and administrative expenses	Interest
	\$ c.	\$ c.		\$ c.	\$ c.
Bloomfield.....	70.00	35,173.10	61.7	982.31	1,559.51
Havelock.....	58.00	36,932.37	82.7	1,427.42	1,619.25
Lakefield.....	42.00	49,493.39	108.0	2,001.16	2,176.77
Marmora.....	35.00	17,087.74	49.9	827.34	741.01
Norwood.....	35.00	22,939.39	79.6	1,213.18	982.41
Peterboro.....	22.50	1,008,381.37	4,563.3	41,859.13	42,188.31
Picton.....	48.00	172,001.81	359.5	4,603.82	7,578.09
Warkworth.....	85.51	13,693.81	32.9	579.07	601.02
Wellington.....	46.00	35,626.05	81.2	1,141.90	1,563.98
Whitby*.....	29.00	149,462.50	629.2	6,652.73	6,300.63
RURAL POWER DISTRICTS—					
Bowmanville—Darlington twp.....		963.82	2.5	38.01	39.31
Campbellford—Seymour twp.....		10,042.80	15.0	182.76	206.38
Kingston—Kingston twp.....		27,683.37	43.6	1,401.19	1,278.98
Oshawa—East Whitby twp.					
—Whitby twp.					
—Pickering twp.....		46,836.75	89.4	3,009.03	2,423.46
Trenton—Murray twp.....		579.50	1.0	20.73	22.38
Totals.....		1,626,897.77	6,199.5	65,939.78	69,281.49

\*NOTE.—Contract with municipality of Whitby not yet signed. Amount credited to Whitby, \$18,248.11, represents \$15,731.17 cash received therefrom and \$2,516.94 charged there against but unpaid.



AND TRENT SYSTEM

COST OF POWER

as the Cost of Power supplied to it under its contract with the Commission, the amount cost, and the amount credited or charged to each Municipality upon supplied to it in the year ending October 31, 1924

costs and fixed charges		Total cost of power for year as provided to be paid under contracts	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertaining the actual cost of power by annual adjustment	
Renewals	Contingencies			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
376.88	61.70	2,980.40	4,322.47	1,342.07	.....
376.62	82.70	3,505.99	4,796.76	1,290.77	.....
508.77	108.00	4,794.70	4,529.09	.....	265.61
162.83	49.90	1,781.08	1,745.87	.....	35.21
205.25	79.60	2,480.44	2,785.08	304.64	.....
7,910.07	4,563.30	96,520.81	102,674.59	6,153.78	.....
1,784.26	359.50	14,325.67	17,253.72	2,928.05	.....
138.04	32.90	1,351.03	2,811.80	1,460.77	.....
362.71	81.20	3,149.79	3,737.84	588.05	.....
1,222.66	629.20	14,805.22	18,248.11	3,442.89	.....
15.68	2.50	95.50	178.20	82.70	.....
91.28	15.00	495.42	769.82	274.40	.....
647.04	43.60	3,370.81	3,984.51	613.70	.....
1,205.68	89.40	6,727.57	11,593.57	4,866.00	.....
12.21	1.00	56.32	72.40	16.08	.....
15,019.98	6,199.50	156,440.75	179,503.83	23,363.90	300.82

## CENTRAL ONTARIO

Statement showing the net Credit or Charge to each of the following Municipalities thereon, adjustments made, and interest added during the year, also the net in the year ending October 31, 1924, and the accumulated amount

Municipality	Date commenced operating	Net credit or charge at October 31, 1923		Cash receipts and payments on account of such credits and charges, also adjustments, made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Bloomfield.....	April, 1919	324.38			324.38
Havelock.....	Feb., 1921	803.15			803.15
Lakefield.....	Aug., 1920		143.78	143.78	
Marmora.....	Jan., 1921		173.81	173.81	
Norwood.....	Feb., 1921	19.48			19.48
Peterboro.....	Mar., 1913		39,941.17		
Picton.....	April, 1919	2,753.42			2,753.42
Warkworth.....	Oct., 1923		137.04	137.04	
Wellington.....	April, 1919	651.74			651.74
Whitby*.....	Mar., 1916		864.95		
RURAL POWER DISTRICTS—					
Bowmanville — Darlington twp.....	Jan., 1924				
Campbellford — Seymour twp.....	Aug., 1924				
†Kingston—Kingston twp..	Jan., 1923	415.16		122.99	
†Oshawa—East Whitby twp.					
—Whitby twp.....	April, 1918		7,135.20	5,555.57	
—Pickering twp.....	Jan., 1924				
Trenton—Murray twp....					
Totals.....		4,967.33	48,395.95	6,133.19	4,552.17

\*Contract with municipality of Whitby not yet signed. As against the above credit balance of \$2,543.34 owing to Whitby, there are arrears on monthly power bills owing by that municipality of \$9,111.35, making a net amount owing by Whitby of \$6,568.01.

CENTRAL ONTARIO AND TRENT SYSTEM  
(ALSO NIPISSING SYSTEM)

## Reserve for Renewals Account, October 31, 1924

Total provision for renewals to October 31, 1923.....	\$1,427,112.78
Deduct:	
Expenditures to October 31, 1923.....	99,606.53
Balance brought forward, October 31, 1923.....	\$1,327,506.25
Added during the year ending October 31, 1924:	
By charges against operations.....	\$138,527.44
Interest at 4% per annum on the monthly balances to the credit of the account.....	53,134.53
	191,661.97
	\$1,519,168.22
Deduct:	
Expenditures during the year ending October 31, 1924.....	21,523.84
Balance carried forward, October 31, 1924.....	\$1,497,644.38

AND TRENT SYSTEM

CREDIT OR CHARGE

in respect of power supplied to it to October 31, 1923, the cash receipts and payments amount Credited or Charged to each Municipality in respect of power supplied standing as a Credit or Charge to each Municipality at October 31, 1924

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1924		Accumulated amount standing as a credit or charge on October 31, 1924	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7.39		1,342.07		1,349.46	
21.01		1,290.77		1,311.78	
6.47			265.61		259.14
	3.96		35.21		39.17
0.45		304.64		305.09	
	1,597.65	6,153.78			35,385.04
68.39		2,928.05		2,996.44	
	3.26	1,460.77		1,457.51	
12.96		588.05		601.01	
	34.60	3,442.89		2,543.34	
		82.70		82.70	
		274.40		274.40	
16.61		613.70		1,168.46	
	285.40	4,866.00		3,000.97	
		16.08		16.08	
133.28	1,924.87	23,363.90	300.82	15,107.24	35,683.35

†Adjustment of \$122.99 in respect of Sinking Fund.  
‡Adjustment of \$5,555.57 in respect of Sinking Fund and debenture payments.

CENTRAL ONTARIO AND TRENT SYSTEM

(ALSO NIPISSING SYSTEM)

Reserve for Contingencies Account, October 31, 1924

Balance brought forward, October 31, 1923.....	\$104,893.57
Added during the year ending October 31, 1924:	
By charges against operations.....	\$40,055.60
Sales of scrap materials.....	216.61
Interest at 4% per annum on the monthly balances to the credit of the account.....	4,164.56
	44,436.77
Balance carried forward, October 31, 1924.....	\$149,330.34





**APPROPRIATIONS, ADVANCES  
AND  
CAPITAL EXPENDITURES  
FOR THE  
YEAR ENDING OCTOBER 31, 1924**

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**Appropriations made by the Legislature for the Purposes of the Commission, Cash Advances by the Province to the Commission on Account of such Appropriations, and the Capital Expenditures made on each Undertaking and System by the Commission out of such Cash Advances in the Year Ending October 31, 1924**

**Appropriations made by the Legislature for the purposes of the Commission, Cash Advances by the Province to the Commission on account of such appropriations, and the Capital Expenditures made on each Undertaking and System by the Commission out of such cash advances in the Year Ending October 31, 1924**

**SUMMARY STATEMENTS**

**NIAGARA SYSTEM**

Appropriations by Legislature.....	\$13,469,000.00	
Cash advances to the Commission out of such appropriations...	\$4,911,600.00	
Unexpended balance.....	690,400.90	
(Of which \$617,611.78 has already been returned to the Province and \$72,789.12 is returnable thereto.)		\$4,221,199.10
Capital expenditure by the Commission as set out in detail in statements following:		
On right-of-way.....	\$462,998.83	
On steel tower lines.....	476,400.43	
On wood pole lines.....	183,677.00	
On transformer stations.....	1,908,537.61	
On generating plant of Ontario Power Company.....	1,200,000.00	
On rural power districts.....	20,893.25	
On extensions to existing rural lines.....	8,391.65	
On local distributing systems.....	4,667.91	
Less—Amount realized from:	\$4,265,566.68	
Sale of rural lines in Sandwich township.....	\$24,163.27	
Sale of distribution system to North York township.....	20,121.15	
Equipment removed from Vaughan township feeder.....	83.16	
	44,367.58	
Total.....		\$4,221,199.10

**QUEENSTON-CHIPPAWA DEVELOPMENT**

Appropriations by Legislature for existing development.....	\$11,853,000.00	
Appropriations by Legislature to cover engineering investigations in respect of a second development.....	60,000.00	
	\$11,913,000.00	
Cash advances to the Commission on account of such appropriations.....	\$3,705,000.00	
Unexpended portion thereof returnable to the Province....	12,226.23	
		\$3,692,773.77
Capital expenditures by the Commission as set out in detail in statements following:		
On canal and units 1 to 5:		
Right-of-way.....	\$37,312.12	
Generating station and equipment.....	67,314.01	
Construction—material and labour.....	557,992.00	
	\$662,618.13	
On Units 6, 7 and 8:		
Generating station and equipment.....	\$781,980.00	
Power house substructure, hydraulic machinery, penstocks, valves, turbines, intake works, river improvements and head works.....	1,915,581.34	
	2,697,561.34	
On Unit 9:		
Generating station and equipment.....	\$32,306.19	
Power house substructure, hydraulic machinery, penstock, valves, turbines, intake works, river improvements and head works.....	174,082.26	
	206,388.45	
	\$3,566,567.92	



Less—

Amount charged to above construction work in 1924 in respect of materials, spare parts and supplies purchased and paid for prior to October 31, 1923.....	\$154,123.55	
Amount realized from sale of construction plant and equipment.....	118,416.80	
Plant and equipment transferred to Niagara and other systems and capitalized thereon	53,092.07	
		<u>\$625,632.42</u>
		\$2,940,935.50
Engineering and superintendence.....		341,334.07
Overhead expenses, including administrative, executive and accounting salaries and expenses, insurance and fire protection.....		245,627.54
Interest during construction.....		145,828.96
Engineering expenses securing information and preparation of data for the defence of suit B. F. Groat vs. Hydro-Electric Power Commission re alleged infringement of intake patents		3,990.86
Engineering investigations in respect of a second development..		15,056.84
Total.....		<u>\$3,692,773.77</u>

### GEORGIAN BAY SYSTEM

Combining systems formerly known as Severn, Eugenia and Wasdells

Appropriations by Legislature.....	\$1,062,000.00	
Cash advances to Commission out of such appropriations.....	\$370,600.00	
Unexpended balance.....	67,367.44	
(Of which \$46,311.12 has already been returned to the Province and \$21,056.32 is returnable thereto.)		
		<u>\$303,232.56</u>
Capital expenditure by the Commission as set out in detail in statements following:		
On power developments.....	\$120,651.35	
On transmission lines.....	179,491.03	
On transformer stations.....	17,735.62	
		<u>\$317,878.00</u>
Less—rural power districts:		
Receipts in excess of expenditures.....	\$8,934.32	
Less—Rural lines:		
Receipts in excess of expenditures.....	5,711.12	
		<u>14,645.44</u>
Total.....		<u>\$303,232.56</u>

### MUSKOKA SYSTEM

Appropriations by Legislature.....	\$424,900.00	
Cash advances to Commission out of such appropriations.....	\$170,600.00	
Expended out of renewal and other reserve funds of the system.....	1,591.55	
		<u>\$172,191.55</u>
Capital expenditure by the Commission as set out in detail in statement following:		
On power developments.....	\$171,527.70	
On transformer stations.....	1,100.10	
		<u>\$172,627.80</u>
Less—transmission lines:		
Receipts in excess of expenditure.....	436.25	
Total.....		<u>\$172,191.55</u>

**ST. LAWRENCE SYSTEM**

Appropriations by Legislature.....	\$271,000.00	
Cash advances to Commission out of such appropriations.....	\$12,000.00	
Unexpended balance.....	9,769.43	
(Already returned to the Province as part of a total of \$28,446.72 from this system.)		\$2,230.57
Capital expenditure by the Commission as set out in detail in statements following:		
On transformer stations.....	\$7,339.91	
Less—Transmission lines:		
Receipts in excess of expenditures.....	\$287.32	
Less—Rural power districts:		
Receipts in excess of expenditures.....	4,822.02	5,109.34
Total.....		\$2,230.57

**RIDEAU SYSTEM**

Appropriations by Legislature.....	\$50,000.00	
Cash advances to Commission out of such appropriations.....	Nil	
Capital expenditure by the Commission as set out in detail in statement following:		
On transmission lines.....	\$16.30	
Less—Transformer stations:		
Receipts in excess of expenditures.....	\$17.73	
Less—Power developments:		
Receipts in excess of expenditures.....	1,164.38	1,182.11
Excess of receipts over expenditures in the year.....		\$1,165.81

**THUNDER BAY SYSTEM**

Appropriations by Legislature.....	\$3,978,650.00	
Cash advances to Commission out of such appropriations.....	\$2,495,000.00	
Unexpended portion thereof returnable to the Province....	22,690.49	\$2,472,309.51
Capital expenditure by the Commission as set out in detail in statements following:		
On generating plant.....	\$1,528,652.90	
On transmission lines.....	850,932.02	
On transformer stations.....	92,724.59	
Total.....		\$2,472,309.51

**OTTAWA SYSTEM**

Appropriations by Legislature.....	\$30,000.00	
Cash advances to Commission out of such appropriations.....	\$1,000.00	
Expended out of renewals and other reserve funds of the system.....	3,225.89	\$4,225.89
Capital expenditure by the Commission as set out in detail in statements following:		
On transformer stations.....	\$7.83	
On rural power districts.....	4,218.06	
Total.....		\$4,225.89

NOTE—Returned to the Province by this system \$26,125.76, which amount had previously been expended on rural power districts, but in the year 1924 was released by application of government grant.

## CENTRAL ONTARIO AND NIPISSING SYSTEMS

Appropriations by Legislature, Central Ontario system .....	\$2,636,000.00	
Nipissing system .....	381,850.00	
		\$3,017,850.00
Cash advances to Commission out of such appropriations.....	\$1,814,000.00	
Unexpended balance.....	359,185.07	
(Of which \$50,927.33 has already been returned to the Province, and \$308,257.74 is returnable thereto.)		
		\$1,454,814.93
Capital expenditure by the Commission as set out in detail in statements following:—		
On power development—Central Ontario system.....	\$1,071,658.38	
On transformer stations—Central Ontario system.....	31,248.27	
On transmission lines—Central Ontario system.....	86,893.54	
On local utilities—Central Ontario system.....	118,034.74	
On pulp mill and Bruton limits—Central Ontario System....	633.73	
On power development—Nipissing system.....	141,563.64	
On transmission lines—Nipissing system.....	1,891.96	
On local utilities—Nipissing system.....	8,100.07	
Less:		\$1,460,024.33
On transformer stations and service buildings, Nipissing system:—		
Equipment transferred in excess of expenditures.....	\$1,742.84	
On rural districts—Central Ontario System:—		
Excess of receipts over expenditures.....	3,466.56	
		5,209.40
Total.....		\$1,454,814.93

## MISCELLANEOUS

Appropriations by Legislature.....	\$300,000.00	
Cash advances to Commission out of such appropriations.....	\$10,000.00	
Unexpended balance thereof returnable to Province.....	601.61	
		\$9,398.39
Capital expenditure by the Commission as set out in detail in statements following:—		
On service buildings and equipment.....	\$3,874.07	
On office buildings and equipment.....	5,524.32	
Total.....		\$9,398.39

## EXPENDITURES ON ACCOUNT OF THE PROVINCE

Appropriations by Legislature.....	\$196,612.80	
Cash advances to Commission out of such appropriations.....	\$196,612.80	
Unexpended portion thereof returnable to the Province....	77,680.03	
		\$118,932.77
Expenditures by the Commission as set out in detail in the statement following.		\$118,932.77

## HYDRO-ELECTRIC RAILWAYS

## Essex District

Cash in the hands of the Commission on October 31, 1923, being the unexpended balance of borrowings, \$400,000 from the Bank of Montreal.....	\$1,145.63	
Borrowings from the Bank of Montreal, in the year for the purposes of the railway.....	\$425,000.00	
	\$426,145.63	
Used out of the reserve funds of the railway.....	869.77	
		\$427,015.40
Capital expenditures by the Commission as set out in detail in statements following.....		\$427,015.40



**Guelph District**

Cash in the hands of the Commission on October 31, 1923, being the unexpended balance of borrowings, \$25,000 from the Bank of Montreal.....	\$3,064.51	
Proceeds from the sale of \$8,000 Hydro radial bonds.....	8,000.00	
	<u>\$11,064.51</u>	
Cash in the hands of the Commission on October 31, 1924.....	17,458.12	
		\$6,393.61
Excess of receipts over expenditures in the fiscal year.....		<u>\$6,393.61</u>

**Toronto and York District**

Borrowings from the Bank of Montreal for the purposes of the railway.....	\$650,000.00	
Less:		
Cash in the hands of the Commission on October 31, 1924.....	\$83,703.43	
Funds employed as working capital.....	337,674.98	
	<u>421,378.41</u>	
		\$228,621.59
Capital expenditures by the Commission, as set out in detail on statements following.....		<u>\$228,621.59</u>

**Port Credit to St. Catharines Line**

Cash in the hands of the Commission on October 31, 1923, being the unexpended balance of borrowings, \$500,000 from the Bank of Montreal.....	\$138,319.56	
Less:		
Cash in the hands of the Commission—belonging to the railway—on October 31, 1924.....	134,111.72	
		\$4,207.84
Capital expenditures by the Commission, as set out in detail on statements following.....		<u>\$4,207.84</u>

**Toronto to Port Credit Line**

Receipts in excess of expenditures, as set out in detail in statements following....	\$230,192.47
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**DETAILED STATEMENTS****NIAGARA SYSTEM****Capital Expenditures in the Fiscal Year Ending October 31, 1924**

Upon right-of-way.....	\$462,998.83	
Upon steel tower lines.....	476,400.43	
Upon wood pole lines.....	183,677.00	
Upon transformer stations.....	1,908,537.61	
Upon generating plant of Ontario Power Company.....	1,200,000.00	
Upon rural power districts.....	20,893.25	
Upon extension to existing rural lines.....	8,391.65	
Upon local distributing systems.....	4,667.91	
	<u>\$4,265,566.68</u>	
Less—Amount realized from:		
Sale of rural lines in Sandwich township.....	\$24,163.27	
Sale of distribution system of North York township.....	20,121.15	
Equipment removed from Vaughan township feeder.....	83.16	
	<u>44,367.58</u>	
		<u>\$4,221,199.10</u>

## RIGHT-OF-WAY

York station to Strachan Avenue station.....	\$465,575.53	
York station to Etobicoke station.....	636.41	
York station to Davenport station.....	146.26	
Dundas station to York station.....	157.32	
St. Thomas station to St. Clair avenue station.....	2,546.71	
Saltfleet junction to Hamilton station.....	1,046.48	
Forebay structure, Queenston, to Niagara-Dundas line.....	31,067.32	
		\$501,176.03
Less—Amount realized from sale and transfer of right-of-way:		
Niagara to Dundas.....	\$2,100.00	
Dundas to Toronto.....	157.32	
Forebay to Saltfleet.....	23,692.41	
Saltfleet to Nelson.....	12,227.47	
		38,177.20
		<u>\$462,998.83</u>

NOTE—In the year the following transfers were made as between capital accounts, no expenditure involved:

From Ontario Power Company.....	\$310,016.10
From Toronto Power Company.....	4,033,071.98
From transmission lines.....	83,709.51
	<u>\$4,426,797.59</u>

## TRANSMISSION LINES—STEEL-TOWER LINES

On Queenston-Hamilton-Toronto lines:

Queenston generating station to Forebay structure—1 circuit for unit No. 9.....	\$5,572.27	
Queenston to Welland Canal—110,000-volt double-circuit.....	45,619.36	
Stoney Creek to Nelson junction—110,000-volt line.....	222,500.02	
Dundas to York station—double-circuit aluminum cable.....	46,823.93	
York to Toronto—110,000-volt line.....	67,867.02	
York to Davenport station.....	27,028.98	
		\$415,411.58

On St. Thomas to St. Clair station—110,000-volt wood-pole line  
Construction of telephone lines between generating plants of Ontario Power Company, Electrical Development Company and Queenston-Chippawa development..... 2,632.44

Extensions to and additional equipment on existing lines:

Preston to Kitchener.....	\$245.03	
Woodstock to London.....	332.21	
Queenston generation station to forebay structures.....	505.83	
Queenston to St. Thomas.....	416.79	
Queenston to Saltfleet.....	2,945.57	
Queenston to Allanburg.....	1,199.83	
Nelson junction to Cooksville.....	364.50	
Dundas to Toronto.....	1,196.48	
	<u>\$7,206.24</u>	
Preliminary engineering and studies of high-voltage lines.....	5,551.61	
Engineering expenses in connection with purchase of galvanized towers, insulators and aluminum.....	787.05	
		13,544.90
		<u>\$497,653.68</u>

Less—Value of equipment transferred from the following sections to other lines, and capitalized thereon:

Niagara to Dundas.....	\$20.30
Dundas to Nelson junction.....	29.34
Kitchener to Stratford.....	85.60
Cooksville to York.....	89.32
York to Islington junction.....	615.11
Toronto Power Company station to Ontario Power Company, forebay.....	3,279.50
Saltfleet junction to Hamilton.....	11.72
All sections—removal of old grounding conductor.....	16,823.86
Telephone line to Oakwood Avenue, Toronto.....	294.91
Forebay at Queenston to Niagara station, structure.....	3.59
	<u>\$21,253.25</u>

Total expenditure in year on steel-tower lines..... \$476,400.43

#### WOOD-POLE LINES

Construction of new lines:

St. Catharines to Port Dalhousie feeder.....	\$415.68
Merritton to St. Catharines.....	6,094.98
Whirlpool sub-station to Niagara-on-the-Lake.....	8,027.53
Lythmore to Decewsville.....	8,088.84
Hagersville to Jarvis.....	10,210.23
Decewsville to Cayuga.....	3,616.50
Junction pole to Waterdown.....	1,178.02
Bond Lake to Kettleby.....	1,224.59
Canada Wire and Cable Company junction to Canadian National Railway junction, Leaside.....	2,342.30
Eglinton junction to York Mills.....	14,548.04
Langstaff junction to Bond Lake.....	275.62
Sedore junction to Sutton.....	1,703.89
Switching at junction, Leaside.....	1,523.02
London station to junction pole No. 38.....	724.49
Broughdale to Oxford Park.....	71.55
Junction pole to Broughdale.....	4,960.50
Harriston to Clifford.....	8,473.24
Walton to Brussels.....	5,968.78
Walton to Blyth.....	9,614.62
Seaforth junction to Walton.....	17,804.77
Sebringville junction to Harriston.....	5,164.85
Aylmer to Springfield.....	570.06
Blenheim to Erieau.....	5,927.51
Sarnia to Courtright.....	1,671.59
Dominion Petroleum Company line.....	4,699.06
Essex to Walkerville.....	26,609.52
Junction pole to Windsor.....	194.01
Junction pole to Sandwich.....	6,092.70
Tap on Belle River line to Essex.....	27,400.05
Junction pole to Mimico.....	686.90
Niagara station to Norton Company.....	4,013.05
Essex station to Kingsville.....	3,073.79
	<u>\$192,970.28</u>

Extensions to and additional equipment on existing lines:

London to junction pole.....	\$102.69
Guelph station to Guelph.....	321.66
Guelph station to junction pole.....	1.90
Junction pole to Elora.....	5.70
Preston station to junction pole.....	199.83
Preston station to Guelph, Preston and Hespeler Railway.....	4.75
Hespeler to Christie-Henderson Company.....	38.48
Junction pole to Galt.....	191.02
St. Jacobs to Elmira.....	10.00
Junction pole to Kitchener.....	2.85



Junction pole to Waterloo.....	\$3.80
Stratford to Sebringville junction.....	909.56
Pole No. 1657 to Palmerston.....	632.44
Junction pole to Moorefield.....	5.49
Junction pole to Drayton.....	5.50
Woodstock station to junction pole No. 76 on Beachville line.....	165.26
Woodstock station to junction pole No. 508 on Tillsonburg line.....	557.86
Junction pole No. 76 to junction pole No. 289 on Beachville—Ingersoll line.....	428.68
Junction pole No. 289 to junction pole No. 324 on Embro line.....	93.58
Junction pole No. 508 to Tillsonburg.....	536.06
Junction pole No. 508 to Norwich.....	83.54
Junction pole No. 324 to Ingersoll.....	395.66
Aylmer junction to Port Stanley.....	94.43
Junction pole to Aylmer—replacing $\frac{1}{4}$ -inch steel with 1/0 aluminum.....	6,892.36
Ayr station to H.O. Cereal Company.....	50.28
Junction pole to Paris.....	158.55
Junction pole to Port Credit.....	68.83
Junction pole to Shale Brick Company.....	20.79
Junction pole No. 89 to junction pole No. 230 on Brampton line.....	1.90
Junction pole No. 230 to junction pole No. 381 on Milton line.....	1.90
Forest to Thedford.....	134.46
Forest to Merlin.....	6.10
Fletcher to Merlin.....	1.66
Junction pole No. 795 to junction pole No. 1445A on Brigden-Oil Springs line.....	37.60
Perch junction to Perch.....	8.60
Junction to Fletcher.....	11.56
Essex station to junction pole No. 55.....	382.71
Essex station to Belle river.....	75.77
Essex station to Puce junction—replacing 5/16-inch steel with 1/0 aluminum.....	5,396.39
York station to junction pole No. 564, Weston line.....	61.07
York station to junction pole No. 122 on Etobicoke line.....	1.90
York station to Mimico.....	58.34
Etobicoke to junction pole No. 12.....	1.09
Woodbridge to Bolton.....	224.83
Junction pole to Weston.....	18.83
Junction pole to Woodbridge.....	71.97
Junction pole to Etobicoke.....	4.27
Mimico junction to junction pole No. 122....	12.49
Whirlpool sub-station to Queenston.....	764.25
Ontario Power Company transformer station to river crossing near Queenston—re- insulation of No. 2—60,000 volt line.....	11,454.11
Ontario Power Company transformer station to Niagara Falls waterworks.....	4,030.88
St. Catharines lines.....	4,649.31
St. Davids to Queenston.....	1,760.00
Beamsville to Grimsby.....	9.14
Line to Growers' Cold Storage Co., Grimsby..	10.36
Niagara to Fonthill.....	794.00
Niagara to Oxley.....	794.00
Toronto to Bathurst arrester station.....	802.75
Bathurst arrester station to Eglinton Avenue junction.....	167.86
Kipling Avenue junction to Goodyear Tire Company.....	418.27
Junction pole No. 631 to Canard River station	418.85
Canard River to junction pole No. 642.....	416.85
Leamington to Wheatley.....	9,531.35

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 \$54,516.97

\$247,487.25

Less—Value of equipment transferred to other lines and capitalized thereon from the following:	
Jordan to Beamsville.....	\$3.66
Toronto limits to York Township limits.....	505.32
Keswick to Sedore.....	1,593.71
Mount Joy to Stouffville.....	687.89
York Township to Unionville.....	768.15
Junction to Markham.....	55.50
Junction to Mount Joy.....	13.97
Junction pole to Dorchester.....	108.16
Junction pole No. 155 to junction pole No. 453 on Rockwood line.....	9.21
Junction pole No. 1005 to Cheltenham.....	14.71
Kitchener to junction pole No. 9.....	347.82
Stratford to Goderich.....	4,138.39
Dublin to junction pole No. 1153.....	386.05
Junction pole No. 647 to Dublin.....	740.80
Junction pole No. 1153 to Seaforth.....	3.00
Junction pole No. 1153 to junction pole No. 1550 on Clinton-Goderich line.....	1,164.71
Junction pole No. 1550 to Clinton.....	276.85
Junction pole No. 1550 to Goderich.....	2,209.00
Sebringville to junction pole No. 647.....	369.39
Junction pole No. 311 to junction pole No. 802 on Milverton line.....	999.78
Junction pole No. 802 to junction pole No. 1314 on Listowel line.....	843.72
Junction pole No. 1314 to junction pole No. 1657 on Harriston line.....	552.12
Junction pole No. 1657 to junction pole No. 1687 on Harriston line.....	52.14
Junction pole No. 1726 to Palmerston.....	27.84
Junction pole No. 1726 to Harriston.....	402.30
Junction pole No. 1687 to junction pole No. 1726 on Harriston line.....	55.97
St. Thomas station to St. Thomas.....	2,981.22
Aylmer junction to Aylmer station.....	2,115.88
Milton to Streetsville—replacing insulators...	1,655.56
Junction pole No. 230 to junction pole No. 381 on Milton line.....	244.04
Junction pole No. 381 to Milton.....	980.20
Junction pole No. 381 to Streetsville.....	40.64
Perch junction to Sarnia.....	629.63
Junction pole to Walkerville.....	274.07
York station to junction pole No. 122 on Mimico line.....	505.33
Port Dalhousie lines.....	643.00
Junction pole to Waterdown.....	130.63
Etobicoke to York.....	67.89
Plattsville junction to Wolverton.....	1,851.21
Line to Reid & Son, Streetsville.....	841.40
Port Colborne to Canada Cork Company station.....	20.03
Oxley to Toronto.....	1,345.64
Eglinton junction to York Mills.....	10,935.47
Goodyear Tire Company to Lake Shore Road terminus.....	955.93
Junction pole No. 1412 to Leamington.....	109.26
Junction pole No. 1605 to Essex.....	31.57
Essex to junction pole No. 231.....	507.81
Canard River to Sandwich, Windsor and Amherstburg railway.....	20.78
	<hr/>
	\$43,217.35
	<hr/>
	\$204,269.90
Less amount written off the Essex County lines.....	20,592.90
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Total expenditure in year on wood-pole lines.....

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\$183,677.00

NOTE—In the year the following transfers were made as between Capital Accounts—no cash expenditure involved:

To transmission lines:

From transformer stations—underground cables at Niagara Falls.....	\$485,355.22
From Ontario Power Company.....	1,180,844.84
From Toronto Power Company.....	2,769,896.75
From Essex County system.....	107,465.00

\$4,543,561.81

From transmission lines:

To right-of-way.....	\$83,709.51
To rural power districts.....	12.92
To transformer stations.....	8,384.05

92,106.48

\$4,451,455.33

TRANSFORMER STATIONS—HIGH TENSION

Niagara Station:	
Barrier walls around breakers and arresters...	51.66
Six electric heaters.....	273.36
Dundas Station:	
Seven 75-kv-a. potential transformers and oil breaker changes.....	30,823.17
Toronto Station:	
Installation of two banks of 5,000-kv-a. transformers at Bridgeman Avenue.....	306,380.51
Installation of three banks of 5,000-kv-a. transformers at Wiltshire Avenue.....	339,138.59
Grading and seeding at Strachan Avenue; guided wire radio broadcasting and receiving set.....	21,940.48
Changes in totalizing and graphic meters.....	1,335.92
London Station:	
Barrier walls, telephone panels, guided wire radio set.....	6,603.54
Mechanical brake for synchronous condenser.	167.43
Kitchener Station:	
Replacing three 1,250-kv-a. and one 2,500-kv-a. transformers with three 5,000-kv-a. transformers and one spare 5,000-kv-a....	122,481.92
Stratford Station:	
Emergency breaker installation and 26,400-volt current transformer changes.....	8,499.28
St. Thomas Station:	
Increased transformer capacity and barrier walls.....	1,658.12
Brant Station:	
Installation of four 5,000-kv-a. transformers and switching equipment for two feeders	181,556.95
Cooksville Station:	
New doorway for station.....	533.23
Kent Station:	
Replacing three 1,250-kv-a. transformers with 2,500-kv-a.....	47,603.86
Essex Station:	
Installation of four 5,000-kv-a. transformers and guided wire radio set.....	9,642.55
York Station:	
Replacing switching equipment and erection of two operators' cottages.....	28,200.20
Hamilton Station:	
Completing new station, additional feeder capacity and erection of two operators' cottages.....	36,678.20
St. Clair Station:	
Preliminary expenditure re construction of new station.....	3,121.68



## Queenston Station:

Transformation equipment for units 1 to 5...	\$110,117.43
Transformation equipment for units 6 to 8...	783,723.40
Replacing entrance bushings for units 1 to 5..	9,486.89

## Reserve Equipment:

One 750-kv-a. transformer.....	75.58
Seven 3,000-kv-a. transformers.....	74,275.96
Three 1,250-kv-a. transformers, and eight current transformers.....	18,097.00
Nine 5,000-kv-a. transformers.....	11,596.67
Three 1,250-kv-a. transformers.....	181.65
One motor generator set.....	1,896.69
Twelve oil breakers.....	1,431.99

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\$2,157,573.91

## Less—Equipment transferred to other stations and capitalized thereon:

From Niagara.....	\$24,883.39
From Dundas.....	15,005.37
From Toronto.....	9,152.02
From Guelph.....	432.57
From Preston.....	740.08
From Kitchener.....	53,661.05
From Stratford.....	2,201.41
From St. Marys.....	1,598.43
From Woodstock.....	460.07
From Brant.....	7,640.09
From Cooksville.....	462.92
From Kent.....	21,455.35
From Essex.....	1,326.40
From Niagara (Ontario Power Company Sta- tion).....	3,075.33
From Niagara (Electrical Development Com- pany Station).....	1,965.65
From reserve equipment.....	282,337.27

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426,397.40

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\$1,731,176.51

## Preliminary engineering in connection with steam generating plant on Niagara System.....

1,372.90

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\$1,732,549.41

## TRANSFORMER STATIONS—LOW TENSION

## Purchase and installation of Electrical and Metering equipment for the following new stations:

Welland rural power district station.....	\$1,083.02
Stamford rural power district station.....	463.91
Dundas rural power district station.....	245.82
Barton rural power district station.....	430.41
Scarboro rural power district station.....	23.04
London rural power district station.....	4,848.58
Stratford rural power district station.....	243.06
Tillsonburg rural power district station.....	412.36
St. Thomas rural power district station.....	718.27
Brant rural power district station.....	475.25
Sarnia rural power district station.....	21.71
Sandwich rural power district station.....	490.86
Saltfleet rural power district station.....	2,102.31
Merritton station.....	841.77
Lincoln station.....	11,029.61
St. Davids station.....	4,433.09
Queenston village station.....	175.56
Canadian Niagara Power Company station...	554.61
Port Colborne station.....	1,259.85
Waterdown station.....	3,388.40
Caledonia station.....	899.81
Hagersville station.....	1,699.58
Cayuga station.....	796.64
Decewsville station.....	5,293.13

Richmond Hill station.....	\$6.95
Broughdale station.....	12,039.62
Hespeler station (Christie-Henderson).....	15.19
Walton station.....	6,623.56
Norfolk station.....	960.68
Lakeview station.....	338.65
Glencoe station.....	605.84
Merlin station.....	518.00
Fletcher station.....	853.00
Courtright station.....	480.87
Dominion Petroleum Company station.....	157.37
Point Edward station.....	739.64
Erieau station.....	236.50
Sandwich station.....	9,307.42
Windsor converter station .....	97.94
Bolton station.....	35.01

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\$74,946.89

Extensions to and additional equipment installed  
in existing distributing stations:

Walton.....	\$1.74
Beachville.....	.41
Ayr.....	729.00
Wolverton.....	1,851.21
Streetsville.....	841.40
Sandwich.....	10.00
Preston rural.....	5.00
Welland.....	122.67
Niagara Falls.....	175.00
Chippawa village.....	.80
Beamsville.....	160.46
Dundas.....	118.69
Lynden.....	100.68
Waterdown (Dominion Sewer Pipe Company).....	94.60
Blantyre.....	280.47
Humber.....	492.11
York Mills.....	1,351.57
Bond Lake.....	7,407.30
Schomberg and Aurora.....	364.32
Newmarket.....	1,286.46
Sedore.....	467.66
Scarboro.....	192.65
Delaware.....	270.12
Strathroy.....	10.00
Dorchester.....	73.95
Lucan.....	73.95
Ailsa Craig.....	73.90
Elora.....	86.34
Fergus.....	86.34
Acton.....	1,220.61
Georgetown.....	147.30
Waterloo.....	10.00
St. Jacobs.....	3,064.24
Elmira.....	384.18
Baden.....	894.81
New Hamburg.....	1,840.37
Tavistock.....	462.50
Dublin.....	73.50
Clinton.....	10.00
Goderich.....	152.45
Milverton.....	73.50
Palmerston.....	423.71
Harriston.....	691.23
Moorefield.....	142.64
Drayton.....	367.63
Embro.....	74.51
Beachville.....	283.20
Norwich.....	177.60
Otterville.....	19.98
Tillsonburg.....	74.42
St. Thomas (London and Port Stanley Rail- way).....	325.53

Dutton.....	\$73.50
West Lorne.....	72.97
Port Stanley.....	73.94
Aylmer.....	139.42
Brantford (Lake Erie and Northern Railway)	1.95
Brant (step-down equipment).....	530.72
Burford.....	73.87
Waterford.....	76.22
Simcoe.....	41.00
Paris.....	77.25
Ayr.....	73.87
Drumbo.....	74.41
Plattsville.....	187.01
Port Credit.....	84.01
Milton.....	220.14
Streetsville.....	60.11
Streetsville (Reddick meters).....	23.90
Streetsville (Lumber Company meters).....	12.00
Tilbury.....	811.43
Blenheim.....	4,362.08
Thamesville.....	73.94
Bothwell.....	73.94
Wallaceburg.....	9,600.48
Oil Springs.....	71.93
Brigden.....	74.00
Petrolia.....	72.98
Forest.....	230.53
Watford.....	192.16
Sarnia.....	246.79
Perch.....	110.32
Etobicoke.....	407.92
Weston.....	102.44
Woodbridge.....	6,412.68
Etobicoke Township.....	7,037.08
Mimico.....	1,331.71
Thorold.....	10,025.43
Queen Victoria Park.....	239.92
Canada Steel Foundries.....	282.91
Chippawa (Norton Company).....	446.13
Port Colborne (Canada Cement Company)...	272.52
Toronto (Keele Street).....	52.31
Islington.....	95.75
Leaside (Canada Wire & Cable Company)...	36.54
Leaside (Canadian National Railway).....	1,212.71
Kingsville.....	7,985.99
Leamington.....	1,051.04
Essex.....	282.36
Wheatley.....	681.09
Reserve equipment.....	85,068.70
	<hr/>
	\$168,484.81
Less—Value of equipment transferred to other stations and capitalized thereon from the following:	\$1,975,981.11

Caledonia.....	\$74.00
Hagersville.....	37.00
Scarboro.....	171.34
Mount Joy.....	110.83
Blantyre.....	200.00
Humber.....	4,930.00
York Mills.....	185.00
Bond Lake.....	217.50
Newmarket.....	1,650.00
Keswick.....	535.83
St. Jacobs.....	2,405.50
Elmira.....	74.50
Preston.....	72.00
Baden.....	330.70
Goderich.....	63.00
Moorefield.....	422.00



Drayton.....	\$363.86
Drumbo.....	729.00
Cheltenham.....	4,669.03
Brant.....	2,412.59
Milton.....	141.00
Tilbury.....	731.10
Blenheim.....	2,159.00
Wallaceburg.....	3,603.08
Watford.....	133.26
Etobicoke.....	5,528.56
Erindale.....	61.00
Saltfleet.....	121.64
Waterdown (Dominion Sewer Pipe Company)	4,770.25
Hagersville.....	140.00
York and Scarboro.....	6.44
Delaware.....	1,522.00
Breslau.....	1,065.74
Acton.....	168.90
New Hamburg.....	90.00
Listowel.....	140.50
Palmerston.....	156.00
St. Marys (Portland Cement Company).....	2,964.33
Norwich.....	226.50
St. George.....	115.00
Ridgetown.....	58.96
Fletcher.....	1,171.77
Mimico.....	4,067.91
St. Catharines.....	67.92
Woodbridge.....	261.40
Chippawa.....	1,600.00
St. Catharines.....	1,445.11
Merritton.....	887.06
Niagara Falls (American Cyanamid Company)	21.47
Port Colborne.....	778.30
Port Colborne (Canada Cork Company).....	2,482.37
Niagara Falls (Abrasive Company).....	902.00
New Toronto (Goodyear Tire Company).....	418.27
Thorold (Beaverboard Company).....	194.84
Canard River.....	3,375.67
Amherstburg.....	268.86
Reserve equipment.....	5,943.61
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	\$67,443.50

Total expenditure in year on transformer stations..... \$1,908,537.61

NOTE—In the year the following transfers were made as between capital account—no cash expenditure involved.

To transformer stations:

From Essex County system....	\$80,088.07
From Thorold system.....	102,094.82
From Ontario Power Company	2,108,220.99
From Toronto Power Company	2,029,645.55

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\$4,320,049.43

From transformer stations:

To transmission lines..... 476,971.17

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\$3,843,078.26

#### GENERATING PLANT OF ONTARIO POWER COMPANY

Paid to Bank of Montreal, Toronto, to retire loan previously obtained to pay in part the cost of constructing the Third Pipe Line to the works of the Ontario Power Company..... \$1,200,000.00

## RURAL POWER DISTRICTS

Niagara:	
18.25 miles of lines to serve 50 consumers in Niagara township.....	\$28,954.93
Secondary circuits to serve additional consumers.....	692.40
Grantham:	
1 mile of line to serve 25 consumers in Grantham township.....	4,351.08
Secondary circuits to serve additional consumers.....	149.10
Jordan:	
0.17 miles of line to serve 1 consumer in Louth township.....	380.00
0.12 miles of line to serve 1 consumer in Louth township.....	118.15
Secondary circuits to serve additional consumers.....	217.54
Beamsville:	
4.75 miles of line to serve 7 consumers in Clinton township.....	6,220.82
1.25 miles of line to serve 5 consumers in Louth township.....	1,167.57
0.25 miles of line to serve 1 consumer in Clinton township.....	369.14
3 miles primary from Grimsby sub-station to Beamsville rural.....	1,096.02
2-1/3 miles of lines to serve 10 consumers in Louth township.....	3,668.08
Conversion of line serving Dominion Cannery and the Arkona Basket Works from 1 phase to 3 phase.....	1,510.67
Cost of office and stores building in Beamsville.....	3,307.56
Secondary circuits to supply additional consumers.....	4,954.65
Welland:	
0.13 miles of line to serve 1 consumer in Crowland township.....	1,357.54
3 miles of line to serve approximately 900 consumers in Welland district.....	33,336.00
0.25 miles of line to serve 9 consumers in village of Port Robinson.....	7.56
Cost of distribution system in Port Robinson and Welland South, purchased from Welland Hydro-Electric System.....	11,546.01
Cost of rural lines in Welland rural power district purchased from Welland Electric Company.....	34,081.71
Secondary circuits to supply additional consumers.....	1,576.50
Stamford:	
Secondary circuits to supply additional consumers.....	1,299.15
Chippawa:	
Secondary circuits to supply additional consumers.....	141.50
Dundas:	
0.8 miles of primary line and purchase of 1.5 miles from Dundas, also changing existing primary line from 2,200 to 4,000 volts in townships of West Flamboro and Beverley.....	4,543.12
1/3 mile of line to serve 1 consumer in Ancaster township.....	208.76
Secondary circuits to supply additional consumers.....	727.49
Lynden:	
12 miles underground line to serve 48 consumers in Beverley township.....	10,087.88
1/3 mile underground line to serve 1 consumer in Beverley township.....	7.03

0.07 miles underground line to serve 1 consumer in Ancaster township.....	\$244.16
Secondary circuits to supply additional consumers.....	59.16
Waterdown:	
Changing existing primary from 2,200 to 4,000 volts in East Flamboro township, also cost of 4,000-volt circuit from junction pole to Waterdown station.....	3,117.73
0.8 miles of line to serve 17 consumers in East Flamboro township.....	3,350.43
Secondary circuits to supply additional consumers.....	310.16
Barton:	
3.85 miles of line to serve 35 consumers in Barton and Glanford townships.....	8,692.82
2.4 miles of line to serve 8 consumers in Barton, Glanford and Ancaster townships.....	36.55
Secondary circuits to supply additional consumers.....	39.43
Markham:	
Secondary circuits to supply additional consumers.....	740.25
Scarboro:	
3.28 miles of lines to serve 18 consumers in Scarboro township.....	1,831.40
0.6 miles of line to serve 8 consumers in Scarboro township.....	1,667.32
0.25 miles of line to serve 1 consumer in Scarboro township.....	329.16
Secondary circuits to supply additional consumers.....	477.64
Bond Lake:	
Repayment of deposits on lines to former customers of Toronto and York Radial railways in townships of King, Vaughan, Markham and Whitchurch.....	629.15
5.27 miles of lines to serve 57 consumers in village of Schomberg.....	10,095.24
3 miles of lines to serve 41 consumers in King township.....	7,084.48
Secondary circuits to supply additional consumers.....	3,359.88
Newmarket:	
Repayment of deposits on lines to former customers of Toronto and York Radial railways in townships of Whitchurch and King.....	131.77
Secondary circuits to supply additional consumers.....	43.61
Keswick:	
Repayment of deposits on lines to former customers of Toronto and York Radial railways in North Gwillimbury township....	182.33
1.4 miles of lines to serve 18 consumers in Georgina township.....	2,838.71
0.8 miles of line to serve 6 consumers in North Gwillimbury township.....	1,579.38
Secondary circuits to supply additional consumers.....	3,019.01
Mount Joy:	
Secondary circuits to supply additional consumers.....	925.93
Lansing:	
0.33 miles of lines to serve 2 consumers in Vaughan township.....	621.68
Repayment of deposits on lines to former customers of Toronto and York Radial railways in townships of Vaughan and Markham.....	278.65



1.45 miles of lines to serve 8 consumers in North York township.....	\$2,714.64
0.7 miles of line to serve 2 consumers in Vaughan township.....	788.43
1 mile of line to serve 14 consumers in Markham township.....	1,949.17
0.45 miles of line to serve 13 consumers in North York township.....	32.42
2 miles of lines to serve 2 consumers in North York township.....	3,007.56
Secondary circuits to supply additional consumers.....	1,283.43
Dorchester:	
0.45 miles of lines to serve 1 consumer in North Dorchester township.....	62.06
1.44 miles of lines to serve 5 consumers in North Dorchester township.....	2,496.59
1.5 miles of lines to serve 5 consumers in North Dorchester township.....	39.90
1.5 miles of primary lines changed to 3 phase to serve Dorchester Humus Company..	142.97
Secondary circuits to supply additional consumers.....	914.02
London:	
22.95 miles of lines to serve 121 consumers in Westminster and London townships....	18,224.28
6.59 miles of lines to serve 32 consumers in London township.....	174.56
0.33 miles of lines to serve 4 consumers in London township.....	758.51
0.8 miles of lines to serve 2 consumers in Westminster township.....	963.13
0.25 miles of line to serve 1 consumer in Westminster township.....	409.96
0.95 miles of line to serve the Western University, London township.....	1,002.72
8.86 miles of primary line and purchase of 7.17 miles of lines from London Public Utilities Commission.....	17,109.62
Purchase of lines from London Public Utilities Commission situated south of Thames River, including Byron and to Westminster Hospital.....	24,560.98
1 mile of line to serve 6 consumers in Westminster township.....	56.61
0.47 miles of line to serve 3 consumers in Westminster township.....	16.90
2.9 miles of lines to serve 9 consumers in Westminster township.....	129.01
0.65 miles of line to serve 2 consumers in London township.....	160.90
Purchase of lines outside London City limits from London Public Utilities Commission and construction of 3.90 miles of primary lines.....	5,192.13
0.55 miles of line for one special contract in London township.....	8.52
Secondary circuits to supply additional consumers.....	5,475.66
Delaware:	
8.4 miles of lines to serve 62 consumers in Lobo and London townships.....	581.22
0.25 miles of lines to serve 1 consumer in Ekfrid township.....	246.17
Secondary circuits to supply additional consumers.....	502.53
Exeter:	
Secondary circuits to supply additional consumers.....	501.28

Georgetown:	
Secondary circuits to supply additional consumers .....	\$6,108.91
Preston:	
4.38 miles of lines to serve 17 consumers in Waterloo township.....	4,110.94
0.9 miles of line to serve 4 consumers in Waterloo township.....	296.33
Secondary circuits to supply additional consumers.....	1,610.01
Galt:	
Secondary circuits to supply additional consumers.....	645.43
St. Jacobs:	
10.25 miles of lines to serve 77 consumers in Woolwich and Wellesley townships.....	18,126.03
6 miles of lines to serve 40 consumers in Woolwich and Wellesley townships.....	9,245.24
0.65 miles of lines to serve 4 consumers in village of St. Jacobs.....	618.62
Secondary circuits to supply additional consumers.....	745.93
Tavistock:	
Secondary circuits to supply additional consumers.....	99.93
Walton:	
2/5 miles of line to serve 15 consumers in Morris, Grey and McKillop townships...	1,517.96
Secondary circuits to supply additional consumers.....	34.08
Stratford:	
Changing 2,000-volt feeder to 4,000 volts, Stratford to Sebringville.....	103.15
Purchase of equipment from Stratford Public Utilities Commission to supply consumers in Sebringville.....	4,090.42
Secondary circuits to supply additional consumers.....	49.93
Woodstock:	
Purchase of equipment from Woodstock Public Utilities Commission to serve consumers in Blandford township.....	648.37
Secondary circuits to supply additional consumers.....	521.15
Tillsonburg:	
6.5 miles of line to serve 44 consumers in Middleton township.....	4,739.76
Secondary circuits to supply additional consumers.....	59.40
St. Thomas:	
26 miles of lines to serve 162 consumers in Yarmouth and Southwold townships...	13,391.03
0.5 miles of lines to serve 1 consumer in Yarmouth township.....	447.61
Secondary circuits to supply additional consumers.....	3,411.90
Aylmer:	
5.5 miles of lines to serve 24 consumers in Yarmouth and Malahide townships.....	4,858.24
0.6 miles of lines to serve 16 consumers in South Dorchester and Malahide townships.....	58.92
Secondary circuits to supply additional consumers.....	261.45
Brant:	
1.13 miles of lines to serve 4 consumers in South Dumfries township.....	1,349.26
Secondary circuits to supply additional consumers.....	883.22
Waterford:	
Secondary circuits to supply additional consumers.....	169.28

Drumbo:	
Secondary circuits to supply additional consumers.....	\$109.40
Simcoe:	
Secondary circuits to supply additional consumers.....	119.97
Streetsville:	
Secondary circuits to supply additional consumers.....	32.44
Brampton:	
1-2/5 miles of line to serve 4 consumers in Chinguacousy and Toronto townships...	337.97
Chatham:	
1.5 miles of lines to serve 31 consumers in Dover township.....	1,168.44
3.5 miles of lines to serve 11 consumers in Dover township.....	1,009.68
Secondary circuits to supply additional consumers.....	438.96
Ridgetown:	
Secondary circuits to supply additional consumers.....	748.36
Blenheim:	
8 miles of lines to serve 39 consumers in Harwich township.....	7,107.86
1 mile of line to serve 4 consumers in Raleigh township.....	589.72
Secondary circuits to supply additional consumers.....	39.19
Sarnia:	
2½ miles of lines to serve 12 consumers in Sarnia township.....	1,517.05
¾ miles of line to serve 25 consumers in Moore township.....	3,225.41
1¼ miles of line to serve 14 consumers in Sarnia township.....	1,699.90
Secondary circuits to supply additional consumers.....	1,173.28
Petrolia:	
¼ mile of line to serve 3 consumers in Sarnia township.....	384.08
Bothwell:	
½ mile of lines to serve 10 consumers in Ekfrid and Mosa townships.....	553.21
Secondary circuits to supply additional consumers.....	6.00
Wallaceburg:	
16 miles of lines to serve 98 consumers in Sombra and Chatham townships.....	10,726.15
Secondary circuits to supply additional consumers.....	906.23
Tilbury:	
1/10 mile of secondary line to serve 5 consumers in North Tilbury township.....	116.75
Sandwich:	
0.78 miles of lines to serve 4 consumers in West Sandwich township.....	1,384.03
0.36 miles of lines to serve 11 consumers in West Sandwich township.....	524.03
3 miles of lines to serve 3 consumers in West Sandwich township.....	2,096.50
2-1/3 miles of lines to serve 10 consumers in South Sandwich township.....	3,008.78
Changing Canard River system over to supply West Sandwich township.....	696.68
Purchase of lines from Windsor Hydro-Electric system to form part of Sandwich rural power district.....	28,362.18
Stringing 6 spans of primary to serve 5 consumers in West Sandwich township..	470.01



½ mile of lines to serve 3 consumers in West Sandwich township.....	\$1,380.28	
7½ miles of lines to serve 135 consumers in East Sandwich township.....	6,055.48	
Cost of garage and storehouse.....	231.00	
1 mile of lines to serve 12 consumers in East Sandwich township.....	20.24	
Secondary circuits to supply additional consumers.....	3,728.87	
Secondary circuits in Canard River system..	41.28	
Belle River:		
Secondary circuits in Canard River system...	1,674.76	
Woodbridge:		
Purchase of secondary lines in Vaughan township from the village of Bolton.....	4,006.79	
1.85 miles of lines to serve 18 consumers in Vaughan township.....	2,536.17	
0.19 miles of line to serve 3 consumers in Vaughan township.....	25.12	
Secondary circuits to supply additional consumers.....	364.31	
Bolton:		
1.15 miles of lines to serve Fresh Air Camp....	1,556.35	
Saltfleet:		
0.2 miles of lines to serve 3 consumers in Saltfleet township.....	1,162.08	
Secondary circuits to supply additional consumers.....	5,515.66	
Amherstburg:		
2 miles of single phase lines to supply 29 rural consumers.....	3,713.66	
Changes in rural feeder and addition of new single phase feeder from sub-station to River Road.....	1,554.60	
2-2/3 miles of line to serve 28 rural consumers..	5,855.45	
Secondary circuits to supply additional services.....	379.55	
Harrow:		
Secondary circuits to supply additional services.....	186.92	
Kingsville:		
0.25 miles of lines to supply 11 rural consumers in the Jordan subdivision south of Kingsville.....	604.47	
1.25 miles of line in township of Gosfield to serve 19 rural consumers.....	2,035.94	
Secondary circuits to supply additional services.....	1,287.78	
Leamington:		
Secondary circuits to supply additional services.....	3,272.00	
		\$491,213.39
Less—Value of equipment transferred to other lines and districts, and capitalized thereon:		
Baden rural power district.....	\$114.65	
Bond Lake rural power district.....	151.43	
Tavistock rural power district.....	252.27	
Norwich rural power district.....	1.84	
Brant rural power district.....	230.11	
Wallaceburg rural power district.....	842.83	
Sandwich rural power district.....	2,056.93	
		3,650.06
		\$487,563.33
Less—Amount of grant received in the year from the Provincial Government to reimburse the Commission to the extent of 50% of the cost of primary lines constructed in the year and 50% of the cost of practically all secondary lines constructed prior to 31st October, 1924		466,670.08
Total expenditure in the year on rural power districts.....		\$20,893.25

NOTE—The following transfers were made in the year as between capital accounts—no cash expenditure involved:

To rural power districts—	
From transmission lines.....	\$12.92
From local distributing systems..	59,712.28
From rural lines.....	17,648.65
From Essex County system.....	35,700.51
	<u>\$113,074.36</u>

#### EXTENSION TO EXISTING RURAL LINES

East Flamboro Township:		
Plains road line.....	\$1,143.88	
Service to Burlington Golf Club.....	185.03	
Nassagaweya Township:		
Feeder line from Milton sub-station to Canadian Pacific Railway pumping station, Guelph Junction.....	6,567.02	
Feeder line to Christie Henderson and Robertson Lime Companies extension.....	10.69	
Grantham Township:		
Cost of changing voltage from 2,000-volt to 4,000 volt.....	17.02	
Etobicoke Township:		
Extensions to lines served by York township..	183.00	
Norwich Township:		
Extensions to existing lines.....	285.01	
		<u>\$8,391.65</u>
Less—Cost of lines sold as follows:		
Sandwich and Windsor lines sold to Sandwich	\$19,561.44	
Sandwich and Windsor lines sold to Windsor..	4,601.83	
	<u>\$24,163.27</u>	
Equipment moved from Vaughan township feeder at Woodbridge station.....	83.16	
		<u>24,246.43</u>
Excess of receipts over expenditures in the year.....		<u>\$15,854.78</u>

NOTE—In the year transfers were made from rural lines to rural power districts—no cash expenditure involved..... \$17,648.65

#### LOCAL DISTRIBUTING SYSTEMS

Amherstburg.....	\$4,520.53	
Cottam.....	114.37	
York Mills.....	33.01	
	<u>\$4,667.91</u>	
Less—Sale of distribution system to North York township.....	20,121.15	
Excess of receipts over expenditures.....		<u>\$15,453.24</u>

NOTE—In the year the following transfer was made as between capital accounts—no cash expenditure involved:

From local distributing system to rural power districts.....	<u>\$59,712.28</u>
From Essex County system to local distribution systems..	37,703.45

## QUEENSTON-CHIPPAWA DEVELOPMENT

## Capital Expenditures in the Fiscal Year ending October 31st, 1924

Upon canal and units 1 to 5:		
Right-of-way.....	\$37,312.12	
Generating station and equipment.....	67,314.01	
Construction—material and labour.....	557,992.00	
		\$662,618.13
Upon units 6, 7 and 8:		
Generating station and equipment.....	\$781,980.00	
Power house substructure, hydraulic machinery, penstocks, valves, turbines, intake works, river improvements and head works, etc., etc.....	1,915,581.34	
		2,697,561.34
Upon unit No. 9:		
Generating station and equipment.....	\$32,306.19	
Power house substructure, hydraulic machinery, penstocks, valves, turbines, intake works, river improvements and head works.....	174,082.26	
		206,388.45
		\$3,566,567.92
Less—Amount charged to above construction work in respect of materials, spare parts, and supplies purchased and paid for prior to October 31st, 1923.....	\$454,123.55	
Amount realized from sale of construction plant and equipment.....	118,416.80	
Plant and equipment transferred to Niagara and other systems and capitalized thereon	53,092.07	
		625,632.42
		\$2,940,935.50
Upon engineering and superintendence.....		341,334.07
Upon overhead expenses including administrative, executive and accounting salaries and expenses, insurance and fire protection.....		245,627.54
Upon interest during construction.....		145,828.96
Upon engineering expenses securing information and preparation of data for the defence of suit—B. F. Groat vs. Hydro-Electric Power Commission—re alleged infringement of intake patents.....		3,990.86
Upon engineering investigations in respect of a second development.....		15,056.84
Total expenditure in the year.....		\$3,692,773.77

## RIGHT-OF-WAY

Land purchased and expenses incidental thereto.....	\$37,312.12
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## GENERATING STATION AND EQUIPMENT (CANAL AND UNITS 1 TO 5)

Buildings and structures.....	\$107,097.57
Generators.....	7,469.03
Switching equipment (general).....	13,396.11
Switching up to low tension bus and switching between low tension bus and transformers....	6,202.98
Transformers and switching equipment between transformers and high tension bus.....	3,445.27
High tension bus, incoming and outgoing feeders..	2,085.68
Service equipment.....	16,053.04
Temporary construction.....	2,121.94
Auxiliary Systems—Permanent:	
Oil supply for generators and transformers...	2,801.47
Power house lighting.....	4,313.39
Ventilating systems.....	2,414.77
Water cooling systems.....	63.53



Sanitation and drainage.....	\$1,374.12	
Water supply.....	1,033.62	
Compressed air systems.....	2,661.66	
Heating, fire protection, etc.....	2,503.92	
Temporary equipment and field overhead expenses.....	2,393.34	
		\$177,431.44
Less—Transformation equipment and portion of expenditure on building transferred to Niagara Transformer Station Account (being 43½ per cent of the total expenditure in the fiscal year ending October 31, 1924, on the station and equipment, plus a portion of the overhead expenses) subject to revision upon completion of work.....		\$110,117.43
		<u>\$67,314.01</u>

## CONSTRUCTION MATERIAL AND LABOUR (CANAL AND UNITS 1 TO 5)

Intake works.....	\$91,035.21	
River improvements.....	175,448.48	
Ice and log chutes.....	26.63	
Penstocks.....	21,459.11	
Power house at Queenston (substructure).....	20,276.84	
Turbines and governors.....	6,220.33	
Power house machinery including large valves, sluice gates and motors.....	9,427.43	
Bridges, trestles, culverts and roadways (permanent).....	115,733.83	
Auxiliary systems, including sanitation, water supply, compressed air, fire protection, etc.....	351.70	
Miscellaneous.....	305.89	
Head Works and Screenhouse:		
Substructure.....	\$8,519.63	
Superstructure.....	40,848.50	
		49,368.13
Canal improvements.....	67,724.05	
Forebay.....	502.00	
Escarpment.....	112.37	
		<u>\$557,992.00</u>

## GENERATING STATION AND EQUIPMENT (UNITS 6, 7, AND 8)

Buildings and structures.....	\$355,771.25	
Generators.....	424,069.01	
Switching equipment (general).....	120,614.24	
Switching up to low tension bus and switching between low tension bus and transformers.....	135,403.16	
Transformers, and switching equipment between transformers and high tension bus.....	347,207.65	
High tension bus, incoming and outgoing feeders..	72,322.27	
Service equipment.....	6,591.41	
Temporary construction.....	1,152.76	
Miscellaneous equipment, including hoists, elevators, tools, tarpaulins, etc., furniture and office equipment.....	3,445.36	
Auxiliary Systems—Permanent:		
Oil supply for generators and transformers... ..	8,274.02	
Power house lighting.....	21,022.98	
Ventilating systems.....	4,649.73	
Water cooling systems.....	1,828.22	
Sanitation and drainage system.....	4,232.49	
Compressed air systems and water supply....	1,898.95	
Heating, fire protection, etc.....	1,643.21	
Temporary equipment and field overhead expenses	22,600.02	
		\$1,532,726.73
Less—Transformation equipment and portion of expenditure on building transferred to Niagara Transformer Station Account (being 43½ per cent of the total expenditure in the fiscal year ending October 31, 1924, on the station and equipment, plus a portion of the overhead expenses and interest) subject to revision upon completion of work.....		750,746.73
		<u>\$781,980.00</u>

POWER HOUSE SUBSTRUCTURE, HYDRAULIC MACHINERY, PENSTOCKS, VALVES, TURBINES,  
INTAKE WORKS, RIVER IMPROVEMENTS AND HEAD WORKS (UNITS 6, 7 AND 8)

Power house substructure.....	\$409,641.36	
Power house machinery.....	29,545.43	
Penstocks.....	247,201.33	
Turbines and governors—main.....	329,162.41	
Auxiliary systems, including water, drainage, etc.....	10,626.23	
Tail race.....	6,268.49	
Intake works.....	6,918.61	
River improvements.....	377,989.13	
Canal betterments.....	203,903.36	
Ice chutes.....	4,537.78	
Escarpment.....	12,173.66	
Head Works and Screenhouse:		
Substructure.....	\$7,317.84	
Superstructure.....	57,453.46	
General.....	7,494.11	
		72,265.41
Operation of Auxiliary Plants:		
Construction railways.....	\$29,840.76	
Construction roadways.....	415.85	
Machine shop.....	5,295.83	
Carpenter shop.....	2,129.27	
Garage and stable.....	40,133.63	
Power, light and telephone.....	55,657.67	
Water and sanitary systems.....	19,238.61	
Dressing station and hospital.....	8,082.63	
Camp buildings, equipment and operation....	4,274.56	
Compressed air systems.....	7,287.43	
Stone crushing expense.....	6,168.27	
Plant maintenance and repairs.....	13,305.66	
General overhead charges.....	13,517.97	
		\$205,348.14
		<u>\$1,915,581.34</u>

GENERATING STATION AND EQUIPMENT (UNIT No. 9)

Buildings and structures.....	\$13,383.16	
Generator.....	17,505.59	
Sanitation and drainage.....	1,238.55	
Water supply—permanent.....	178.89	
		32,306.19

POWER HOUSE SUBSTRUCTURE, HYDRAULIC MACHINERY, PENSTOCK, VALVES, TURBINE, INTAKE  
WORKS, RIVER IMPROVEMENTS AND HEAD WORKS (UNIT No. 9)

Power house substructure.....	\$55,776.71	
Power house machinery.....	11,519.12	
Penstocks.....	8,042.70	
Turbines and governors—main.....	52,122.54	
Intake works.....	2,085.51	
River improvements.....	1,381.03	
Canal betterments.....	39,706.58	
Escarpment.....	863.74	
Auxiliary systems—permanent.....	146.34	
Head Works and Screenhouse:		
Substructure.....	\$1,444.19	
Superstructure.....	908.56	
		2,352.75
Other expenses chargeable direct to the development.....	85.24	
		<u>\$174,082.26</u>

ENGINEERING AND SUPERINTENDENCE

Head office engineering and superintendence.....	\$98,526.78	
Field office engineering and superintendence.....	140,199.81	
Head office and field—designing.....	33,358.74	
Field office tests and inspection.....	18,094.87	
Field office accounting and timekeeping.....	40,707.82	
Surveys for construction.....	877.19	
Field office equipment and maintenance.....	5,087.85	
Field office stationery and blue prints.....	4,481.01	
		<u>\$341,334.07</u>

## OVERHEAD EXPENSES

Proportion of head office administration, executive and accounting salaries and expenses.....	\$211,672.97	
Fire protection.....	6,680.19	
Insurance.....	27,274.38	
		<u>\$245,627.54</u>

## INTEREST DURING CONSTRUCTION

Interest on expenditures in the fiscal year ending October 31, 1924, in connection with the installation of Units 6, 7, 8 and 9.....	<u>\$145,828.96</u>
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ENGINEERING EXPENSES SECURING INFORMATION AND PREPARATION OF DATA FOR THE DEFENCE  
OF SUIT B. F. GROAT VS. HYDRO-ELECTRIC POWER COMMISSION  
RE ALLEGED INFRINGEMENT OF INTAKE PATENTS

Expended thereon to date.....	<u>\$3,990.86</u>
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## ENGINEERING INVESTIGATIONS IN RESPECT OF A SECOND DEVELOPMENT

Expended thereon in the year.....	<u>\$15,056.84</u>
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NOTE—In the year the following transfer was made—no cash expenditure involved:

Walkerton Stone Quarry repossessed under mortgage on which the unpaid balance was.....	\$238,678.08
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## GEORGIAN BAY SYSTEM

Combining Systems formerly known as Severn, Eugenia and Wasdells Systems  
Capital Expenditures in the Fiscal Year ending October 31st, 1924

Upon power developments.....	\$120,651.35	
Upon transmission lines.....	179,491.03	
Upon transformer stations.....	17,735.62	
	<u>\$317,878.00</u>	
Less—Rural power districts:		
Receipts in excess of expenditures.....	\$8,934.32	
Rural lines:		
Receipts in excess of expenditures.....	5,711.12	
	<u>14,645.44</u>	
		<u>\$303,232.56</u>

## POWER DEVELOPMENT AT EUGENIA FALLS

Installation of second pipe line, surge tank and penstock.....	\$112,885.11
Installation of five pipeless furnaces in operators' cottages.....	1,112.75
Battery change in the generating station.....	1,046.74
Cost of stringing a second 600-volt copper circuit from power house to head gates.....	1,810.66
Final payment of contract for steel used in the construction of crossover for first extension...	4,350.00
	<u>\$121,205.26</u>
Less—Equipment transferred to other systems and capitalized thereon.....	2,139.41
	<u>\$119,065.85</u>

## POWER DEVELOPMENT AT THE BIG CHUTE

Preliminary engineering re development at Port Severn.....	\$154.87
Pipeless furnace and heating facilities at Big Chute.	566.06
Installation of motor generator set at Big Chute..	1,251.61
	<u>\$1,972.54</u>



Less—Equipment transferred to other accounts and capitalized thereon:		
Battery parts transferred to Eugenia development.....	\$541.46	
Portable tools transferred to Tool account.....	658.34	
	<u>          </u>	\$1,199.80
		\$772.74

## POWER DEVELOPMENT AT WASDELL FALLS

Motor-driven pump.....	\$9.68	
Timber protection for dam.....	59.10	
Safety rail on the dam.....	321.28	
Pipeless furnace for cottages.....	183.70	
Motor supply for stop-log winch.....	260.79	
	<u>          </u>	\$834.55
Less—Portable tools transferred to Tool account..	21.79	
		<u>          </u> 812.76

Total expenditure in the year on generating stations..... \$120,651.35

## TRANSMISSION LINES

Construction of New Lines:		
South Falls to Waubaushene, 40,000-volt tie line.....	\$155,815.08	
Extensions to and additional equipment on existing lines:		
Cannington to Pinedale.....	\$47.09	
Pinedale to Greenbank.....	39.85	
Junction pole No. 832 to junction pole No. 1,011, Kirkfield line.....	26.86	
Junction W52—air-brake switch.....	483.05	
Hornings Mills.....	72.46	
Eugenia to Meaford Junction.....	65.82	
Chatsworth to junction pole No. 1,141A.....	874.11	
Chesley to Paisley.....	36.64	
Dundalk to Shelburne .....	437.05	
Durham to Holstein.....	1,480.73	
Hanover to junction pole No. 161.....	359.07	
Harristoa to Mount Forest—tie line.....	573.32	
Dundalk Junction to Dundalk.....	874.11	
Dundalk Junction to Priceville.....	1,285.98	
Junction pole to Hanover.....	2,005.19	
Junction pole No. 1,380 to junction pole No. 1,798, Grand Valley line.....	239.89	
Meaford Junction to Collingwood.....	61.32	
Meaford Junction to Meaford—22,000-volt line.....	21,665.42	
Junction pole No. 1,141A to Kilsyth.....	874.11	
Tiffin Junction to Midland.....	47.04	
Tiffin Junction to Grand Trunk Railway elevator station.....	27.96	
Waubaushene Station to junction pole.....	46.67	
Junction pole No. 188 to junction pole No. 401, Tiffin elevator line.....	114.76	
Junction pole No. 401 to Tiffin Junction.....	45.36	
	<u>          </u>	31,783.86
		\$187,598.94

Less—Equipment transferred to other lines and capitalized thereon:	
Air-brake switches.....	\$2,091.75
Durham Russell Station to Holstein Junction.....	481.60
Durham Junction to Durham Russell Station.....	271.74
Holstein Junction to Mount Forest.....	493.11
Walkerton Junction to Hanover Cement Company.....	23.85
Wingham Junction to Wingham.....	108.61
Hanover Cement Junction to Walkerton Quarry.....	4.77

Hanover Cement Junction to Teeswater.....	\$2.86
Big Chute to Waubaushehne.....	4,286.83
Cookstown to junction pole.....	7.18
Junction pole No. 1,110 to junction pole No. 1,786, Collingwood line.....	220.27
Junction pole to Alliston Station.....	7.18
Junction pole No. 1,011 to junction pole No. 1,203, Beaverton line.....	108.16
	<u>\$8,107.91</u>

Total expenditure in the year on transmission lines..... \$179,491.03

#### TRANSFORMER STATIONS

##### Construction of New Stations:

Meaford.....	\$5,214.14
Phelpston.....	1,256.56
Waubaushehne auto transformer.....	403.99
	<u>\$6,874.69</u>

##### Extensions to and additional equipment in existing stations:

Midland.....	\$1,158.45
Penetang.....	89.44
Collingwood.....	99.86
Coldwater.....	65.81
Elmvale.....	62.54
Stayner.....	67.11
Grand Trunk Railway—Tiffin Station.....	168.97
Port McNicoll.....	624.46
Victoria Harbour.....	137.06
Canadian Pacific Railway, Port McNicoll.....	1,402.53
Beeton.....	623.93
Tottenham.....	142.30
Cookstown.....	149.68
Thornton.....	56.31
Bradford.....	2,536.60
Waubaushehne.....	203.79
Beaverton.....	817.70
Cannington.....	293.24
Kirkfield.....	340.59
Owen Sound.....	74.98
Chatsworth.....	325.47
Chesley.....	4,951.88
Dundalk.....	2.93
Hanover.....	7.55
Mount Forest.....	234.34
Shelburne.....	5,511.57
Orangeville.....	297.73
Grand Valley.....	367.17
Kilsyth.....	56.45
Elmwood.....	50.05
Holyrood.....	3,081.41
Kincardine.....	92.30
Walkerton Quarries.....	2,740.24
Mount Forest.....	3,347.72
	<u>30,182.16</u>

##### Spare equipment:

Three 100-kv-a. transformers.....	\$1,200.00
One 75-kv-a. transformer.....	1,209.18
Three 75-kv-a. transformers.....	1,660.00
	<u>4,069.18</u>

\$41,126.03

##### Less—Equipment transferred to other stations and capitalized thereon from the following:

Midland.....	\$588.66
Barrie.....	61.04
Collingwood.....	142.52
Coldwater.....	144.16
Elmvale.....	57.84
Stayner.....	129.06

Port McNicoll.....	\$750.19
Victoria Harbour.....	226.21
Canadian Pacific Railway, Port McNicoll....	532.00
Alliston.....	.45
Beeton.....	275.10
Tottenham.....	238.50
Cookstown.....	301.84
Thornton.....	241.26
Bradford.....	2,427.66
Waubauskene.....	78.04
Owen Sound.....	58.21
Chatsworth.....	232.00
Chesley.....	2,506.21
Durham.....	57.92
Hanover.....	71.24
Mount Forest.....	245.23
Shelburne.....	2,635.71
Orangeville.....	90.73
Grand Valley.....	289.79
Wingham.....	1.02
Holyrood.....	5,444.16
Walkerton Quarries.....	4,538.05
Beaverton.....	578.23
Cannington.....	126.09
Kirkfield.....	311.28
Pinedale.....	10.01
	<u>\$23,390.41</u>

Total expenditures in the year on transformer stations..... \$17,735.62

#### RURAL POWER DISTRICTS

Barrie District:	
4.9 miles of lines to supply twenty-two consumers in Oro township.....	\$32.32
0.3 mile of lines to supply two consumers in Oro township.....	170.50
Installing additional services.....	821.28
Elmvale District:	
0.35 mile secondary lines to supply nineteen consumers in hamlet of Phelpston.....	1,169.74
Erection of seven multiple street lights in Phelpston.....	264.64
Stayner District:	
11 miles of lines to supply 200 consumers....	194.27
Installing additional services.....	1,316.56
Nottawasaga District:	
Installing new services.....	300.12
Markdale District:	
Additional services.....	84.53
Flesherton District:	
Additional services.....	32.87
Walkerton District:	
Additional services.....	31.48
Cannington District:	
Additional services.....	120.75
Port Perry District:	
Additional services.....	55.15
Mariposa District:	
18½ miles of lines to supply ninety-six consumers.....	957.82
Additional services.....	525.12
	<u>\$6,077.15</u>
Less—Amount of grant received in the year from the Provincial Government to reimburse the Commission to the extent of 50 per cent of the cost of primary lines constructed in the year, and 50 per cent of the cost of practically all secondary lines constructed prior to 31st October, 1924.	<u>15,011.47</u>
Excess of receipts over expenditures on Rural Power Districts.....	<u>\$8,934.32</u>



NOTE—The following transfer was made in the year  
as between Capital Accounts—no cash  
expenditure involved:

To Rural Power Districts from rural lines. . . . \$9,266.49

#### RURAL LINES

Lucknow District. . . . .	\$367.70	
Gamebridge street lighting. . . . .	26.30	
		\$394.00
Less—Rural lines sold to Beaverton. . . . .		6,105.12
Excess of receipts over expenditures on rural lines. . . . .		\$5,711.12

#### MUSKOKA SYSTEM

##### Capital Expenditure in the Fiscal Year Ending 31st October, 1924

Upon power developments. . . . .	\$171,527.70	
Upon transformer stations. . . . .	1,100.10	
		\$172,627.80
Less—Transmission Lines:		
Receipts in excess of expenditures. . . . .		436.25
		\$172,191.55

#### POWER DEVELOPMENTS

Extension to South Falls Generating station and the installation of two additional units. . . . .	\$166,679.24	
Construction of generating station at Hanna's chute and installa- tion of one unit. . . . .	6,870.77	
		\$173,550.01
Less—Equipment removed from South Falls plant, transferred to other stations and capitalized thereon. . . . .	2,022.31	
Total expenditures in year on power developments. . . . .		\$171,527.70

#### TRANSFORMER STATIONS

Construction and Equipment of New Station:		
Gravenhurst—Pole type station. . . . .	\$587.42	
Extension and additional Equipment on Existing Stations:		
Huntsville—Relay protection. . . . .	594.68	
		\$1,182.10
Less—Equipment transferred to other stations and capitalized thereon:		
From Huntsville. . . . .	\$82.00	
Total expenditure in the year on transformer stations. . . . .		\$1,100.10

#### TRANSMISSION LINES

Construction of New Lines:		
Junction pole to Gravenhurst. . . . .	\$40.94	
Less—Equipment transferred to other lines and capitalized thereon:		
From South Falls—Waubauskene line. . . . .	477.19	
Excess of receipts over expenditures. . . . .		\$436.25

## ST. LAWRENCE SYSTEM

## Capital Expenditures in the Fiscal Year Ending 31st October, 1924

Upon transformer stations.....		\$7,339.91	
Less—Transmission Lines:			
Receipts in excess of expenditures.....	\$287.32		
Less—Rural Power Districts:			
Receipts in excess of expenditures.....	4,822.02	5,109.34	
			<u>\$2,230.57</u>

## TRANSFORMER STATIONS

Extensions to and Additional Equipment on Existing Stations:			
Cornwall.....	\$256.33		
Brockville.....	87.82		
Chesterville.....	156.07		
Toronto Paper Company—installing larger transformer.....	9,733.90		
Lancaster.....	64.96		
Maxville.....	124.71		
		<u>\$10,423.79</u>	
Spare Equipment:			
Three 150-kv-a. transformers.....		2,575.00	
		<u>\$12,998.79</u>	
Less—Equipment transferred to other stations and capitalized thereon:			
From Cornwall.....	\$654.30		
From Prescott.....	4,660.27		
From Toronto Paper Company station.....	233.31		
From Maxville.....	111.00		
		<u>5,658.88</u>	
Total expenditure in the year on transformer stations.....			<u>\$7,339.91</u>

## TRANSMISSION LINES

Additions to Existing Lines:			
Grant's Corners to Martintown.....		\$23.20	
Less—Equipment transferred to other lines and capitalized thereon:			
From Junction to Phillips' Company line.....	\$245.56		
From Lancaster meters.....	64.96		
		<u>310.52</u>	
Excess of receipts over expenditures.....			<u>\$287.32</u>

## RURAL POWER DISTRICTS

Prescott District:			
Installing additional services.....		\$375.89	
Brockville District:			
0.39 mile of lines to serve one consumer.....		245.56	
Installing additional services.....		1,035.52	
Williamsburg District:			
0.14 mile of lines to serve one consumer.....		486.34	
Martintown District:			
Installing additional services.....		172.11	
Apple Hill District:			
Installing additional services.....		4.54	
		<u>\$2,319.96</u>	
Less—Equipment removed from Chesterville and Martintown districts and capitalized on other lines.....		234.83	
		<u>\$2,085.13</u>	
Less—Amount of grant received in the year from the Provincial Government to reimburse the Commission to the extent of 50 per cent of the cost of primary lines constructed in the year and 50 per cent of the cost of practically all secondary lines constructed prior to 31st October, 1924.....		6,907.15	
Excess of receipts over expenditures.....			<u>\$4,822.02</u>

## RIDEAU SYSTEM

## Capital Expenditures in the Fiscal Year Ending 31st October, 1924

Upon transmission lines.....		\$16.30
Less—Power Development:		
Receipts in excess of expenditures.....	\$1,164.38	
Less—Transformer Stations:		
Receipts in excess of expenditures.....	17.73	
		<u>1,182.11</u>
Excess of receipts over expenditures in the year.....		<u>\$1,165.81</u>

## TRANSMISSION LINES

Extensions to and additional equipment on existing lines:		
Merrickville to Grenville Crushed Rock Company.....		\$20.30
Less—Equipment transferred to other lines and capitalized thereon:		
From Balderson to Lanark line.....		<u>4.00</u>
Total expenditure in the year on transmission lines.....		<u>\$16.30</u>

## POWER DEVELOPMENT

Hydro-Electric Power Commission's share of the cost of making improvements on the Mississippi River through the Mississippi River Improvement Company.....	\$1,135.57	
Line to serve neighbouring cottages.....	221.25	
Motor for head gates.....	568.15	
Storage dam at Mazinaw Lake.....	<u>3.00</u>	
		\$1,927.97
Less—Equipment transferred to other plants and capitalized thereon.....		<u>3,092.35</u>
Excess of receipts over expenditures in the year.....		<u>\$1,164.38</u>

## TRANSFORMER STATIONS

Extensions to and additional equipment on existing station:		
Carleton Place.....		\$97.61
Less—Equipment transferred to other stations and capitalized thereon:		
From Perth.....	\$34.90	
From Carleton Place.....	<u>80.44</u>	
		<u>115.34</u>
Excess of receipts over expenditures in the year.....		<u>\$17.73</u>



## THUNDER BAY SYSTEM

## Capital Expenditures in the Fiscal Year ending 31st October, 1924

Upon generating plant.....	\$1,528,652.90	
Upon transmission lines.....	850,932.02	
Upon transformer stations.....	92,724.59	
		<u>\$2,472,309.51</u>

## GENERATING PLANT—UPON UNITS 3 AND 4

## Construction, material and labour:

Power house substructure .....	\$165,152.23
Water conveying and controlling systems....	72,737.43
Head gates.....	20,330.44
Turbines.....	79,259.48
Governors.....	4,952.77
Railroads, bridges and culverts.....	32,448.90

## Auxiliary construction plants:

Power, compressed air, water and heating systems.....	25,493.49
Concrete mixer and distributing plant.....	11,257.04
Construction plant and equipment.....	18,067.20
Crusher, screening and washing plants.....	39,875.87
Temporary buildings for construction purposes	5,216.78
Machine and carpenter shop equipment.....	6,820.78
Mail service.....	2,484.62
Medical, first-aid and hospital service.....	4,459.42
Plant maintenance and repairs.....	10,816.12
Other expenses chargeable direct to the works.	5,623.06

\$504,995.63

Less—Surplus from camp and stable operations. . . 16,668.39

\$488,327.24

## Generating Station and equipment:

Power house superstructure.....	\$144,998.81
Generators.....	253,920.57
Transformers.....	53,611.40
Switching and service equipment.....	96,474.98
Auxiliary systems, heating, lighting, etc.....	14,158.66
Operators' cottages.....	43,710.29

606,874.71

## GENERATING PLANT—UPON UNITS 5 AND 6

## Construction, material and labour:

Power house substructure.....	\$28,307.16
Water conveying and controlling systems....	29,359.75
Railroads, bridges, culverts, etc.....	8,017.22

## Auxiliary construction plants:

Concrete mixer and distributing plant.....	7,717.15
Gravel production.....	31,119.90
Power, compressed air, water and heating systems.....	2,869.13
Construction plant and equipment.....	878.14
Mail service.....	384.70
Machine and carpenter shop equipment.....	365.69
Fire protection.....	510.65
Medical, first-aid and hospital service.....	181.99
Other expenses chargeable direct to the works.	2,468.88

\$112,180.36

Less—Surplus from camp and building operations. 543.98

111,636.38

## Generating station and equipment:

Power house superstructure.....	\$17,915.33	
Generators.....	119,747.47	
Sanitation and oil systems.....	97.60	
		<u>\$137,760.40</u>

\$1,344,598.73

Less—Items included in the above which were transferred from Units 1 and 2 (no cash expenditures in the year).....

\$45,981.45

Materials and supplies delivered from stores and included in above expenditures on construction.....

\$198,900.90

In excess of materials and supplies purchased in the year...

185,492.13

13,408.77 59,390.22

\$1,285,208.51

## GENERATING PLANT—UPON UNITS 1 AND 2

Installing water-sprinkler system and generators..... 400.15

## Engineering and superintendence:

Engineering—Head office and field.....	\$58,159.41	
Superintendence—Head office and field.....	26,810.11	
Designing.....	8,194.93	
Construction costkeeping, timekeeping and general field accounting.....	11,924.13	
Field Office stationery, blue prints, etc.....	1,244.71	
Tests and inspection.....	5,414.50	
Laboratory charges.....	1,919.01	
		<u>113,666.80</u>

## Overhead Expense:

Administrative, executive, and proportion of Accounting Department's salaries and expenses.....	\$63,385.39	
Insurance.....	15,378.80	
Interest on investments from actual date of expenditure.....	33,088.25	
		<u>111,852.44</u>

## Virgin Falls Dam—Nipigon River:

Engineering expenses in connection with survey, design, and construction of dam.....	6,534.19
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## Thunder Bay and Algoma District:

Surveys and investigations in connection with proposed diversion of Ogokie river.....	10,990.81
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Total expenditure on generating plant..... \$1,528,652.90

## TRANSMISSION LINES

## Construction of new lines:

Erection of 110,000-volt steel tower line from Nipigon to Port Arthur (Bare Point) transformer station.....	\$645,774.30	
Erection of 110,000-volt steel tower line from Port Arthur (Bare Point) transformer station to the proposed intercities station.	136,935.70	
Erection of 110-k.-v. line from Port Arthur to Great Lakes Pulp and Paper Company Station.....	44,293.65	
Single circuit wood-pole line from Reserve Junction to Junction near Guaranty Investment Corporation.....	18,076.88	
Installation of switches at Dorion.....	4,831.55	
		<u>\$849,912.08</u>

## Additions to existing lines:

Cameron's pool to Junction near Guaranty Investment Corporation.....	\$15.00	
Nipigon generating station to Reserve Junction.....	29.68	
Sprucewood Junction to Dorion Junction.....	222.79	
Dorion Junction to Port Arthur Station.....	811.81	
Patrolman's residence at Dorion.....	21.00	
	<u>\$1,100.28</u>	
		\$851,012.36
Less—Equipment transferred to other lines and capitalized thereon.....		80.34
Total expenditure in the year on transmission lines.....		<u>\$850,932.02</u>

## TRANSFORMER STATIONS

## Port Arthur (Bare Point Station):

Installation of 2nd bank of 4,000-kv.-a. transformers with switching equipment.....	\$75,053.60	
Construction of permanent 110-k.-v. outdoor transformer station.....	16,038.57	
Erection of operators' houses.....	210.40	
Metering equipment for Kaministiquia Power Company.....	659.46	
Metering equipment for Great Lakes Pulp and Paper Company.....	1,403.68	
Metering equipment for Guaranty Investment Corporation.....	716.03	
	<u>\$94,081.74</u>	
Less—Equipment transferred from Port Arthur Station to other systems and capitalized thereon.....		1,357.15
Total expenditure in the year on transformer stations.....		<u>\$92,724.59</u>

## OTTAWA SYSTEM

## Capital Expenditures in the Fiscal Year ending 31st October, 1924

Upon transformer stations.....	\$7.83	
Upon rural power districts.....	4,218.06	
		<u>\$4,225.89</u>

## TRANSFORMER STATIONS

Betterments to metering equipment in Ottawa and Hull Power Company's Station.....		\$7.83
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## RURAL POWER DISTRICTS

## Nepean District:

5.75 miles lines to supply forty consumers....	\$7,812.80	
Installing additional services.....	920.50	
	<u>\$8,733.30</u>	
Less—Amount of grant received in the year from the Provincial Government to reimburse the Commission to the extent of 50 per cent of the cost of primary lines constructed in the year and 50 per cent of the cost of practically all secondary lines constructed prior to 31st October, 1924...	4,515.24	
		<u>\$4,218.06</u>



## CENTRAL ONTARIO AND NIPISSING SYSTEMS

## Capital Expenditure in the Fiscal Year ending 31st October, 1924.

On power development—Central Ontario system..	\$1,071,658.38	
On transformer stations—Central Ontario system.....	31,248.27	
On transmission lines—Central Ontario system....	86,893.54	
On local utilities—Central Ontario system.....	118,034.74	
On pulp mill and Bruton Limits—Central Ontario system.....	633.73	
On power development—Nipissing system.....	141,563.64	
On transmission lines—Nipissing system.....	1,891.96	
On local utilities—Nipissing system.....	8,100.07	
		\$1,460,024.33
Less—On Rural Districts—Central Ontario System: Excess of receipts over expenditures.....	\$3,466.56	
Less—On Transformer Stations and Service: Buildings—Nipissing System—Equipment transferred in excess of expenditures...	1,742.84	
		5,209.40
		\$1,454,814.93

## CENTRAL ONTARIO SYSTEM

## POWER DEVELOPMENTS

At Sidney—Installation of rotary pumps, hand brakes and signal horn.....		\$1,597.63
At Frankford—Installation of rotary pumps, hand brakes and protective equipment.....		1,578.45
At Meyersburg—Development of Dam No. 8:		
Lands and buildings.....	\$75,470.60	
Headrace and tailrace, penstock, etc.....	238,157.74	
Turbines.....	49,219.85	
Generators and transformers.....	210,978.87	
Cranes, tools, covers, etc.....	8,892.56	
Roadways, drainage, etc.....	4,682.40	
Construction railroad, concrete crushing and panel systems, temporary buildings, machine shop, small tools and equipment...	7,969.33	
Interest during construction for the year....	13,099.02	
Head office engineering and superintendence..	24,163.63	
Field engineering and superintendence.....	5,470.09	
Sundry overhead expenses.....	5,266.38	
Proportion head office administrative, executive and accounting salaries and expense	11,147.13	
		654,517.60
At Lock No. 9—Development of Dam No. 9:		
Lands and buildings.....	\$75,710.17	
Headrace, tailrace, and penstock, etc.....	43,323.61	
Turbines.....	40,499.56	
Generators and transformers.....	127,253.45	
Cranes, tools, covers, etc.....	5,291.89	
Roadways, drainage, etc.....	1,830.16	
Construction railroads, concrete crushing and gravel system, temporary buildings, machine shop, small tools and equipment...	41,389.90	
Interest during construction for the year....	5,324.43	
Head office engineering and superintendence..	20,310.92	
Field office engineering and superintendence..	6,017.54	
Sundry overhead expense.....	6,632.32	
Proportion head office administrative, executive and accounting salaries and expense	10,990.45	
		384,574.40

At Seymour—Installation of new Westinghouse relay and high voltage feeder.....	\$354.73	
At Heely Falls—Installation of ball thrust bearings and synchroscope.....	663.12	
At Auburn—Grounding neutrals.....	40.51	
At Ranney Falls—Installation of voltage regulators, high volt feeder and protective equipment.....	6,272.64	
At Kashabog Lake—Installation of rock filled crib and bench dam.....	22,214.57	
At Sidney Terminal Station—Installation of high voltage feeder, protective equipment and grounding device.....	2,292.80	
At Peterboro Hydraulic Power Company—Installation of metering equipment.....	428.20	
At Canadian General Electric Company—Installation of metering equipment.....	1,665.22	
	<hr/>	\$1,076,199.87
Less—Operator's house, transferred to stations....	\$1,656.00	
Bowmanville station—adjusting previous charge.....	2,885.49	
	<hr/>	4,541.49
Total expenditure during the year on power developments.....		\$1,071,658.38

## TRANSFORMER STATIONS

## Extension to and additional equipment installed in Stations at:

Belleville.....	\$2,016.37
Bowmanville.....	3,092.91
Lindsay, new.....	560.44
Napanee.....	45.65
Oshawa.....	1,188.18
Port Hope.....	11.68
Dam No. 8.....	5,558.53
Dam No. 9.....	5,613.13
Kingston.....	313.86
Kingston power development.....	210.60
Lehigh.....	102.92
Norwood.....	113.24
Peterboro, railway.....	19,438.24
Sulphide.....	3,278.00
Warkworth.....	63.32
Canada Boxboard Company.....	47.07
Dam No. 8, Lockmaster.....	37.21
Heely Falls, Lockmaster.....	8.15
	<hr/>
	\$41,699.50

## Less—Equipment transferred to other stations and to stores:

From Belleville Cement Company station....	\$2,078.50
From Cobourg station.....	2,318.29
From Colborne station.....	1,452.86
From Millbrook station.....	234.20
From Newcastle station.....	222.85
From Omeme station.....	118.00
From Peterboro station.....	3,801.53
From Pulp Mill station.....	225.00
	<hr/>
	10,451.23

Total expenditure during the year on transformer stations..... \$31,248.27

## TRANSMISSION LINES

## Construction of new lines:

Control cable between power houses at Dams Nos. 8, 9 and 10.....	\$8,680.25
Meyersburg to Sidney Terminal.....	46,969.91
Canadian National Railway, Oshawa to Port Hope district.....	254.21
Dam No. 8 to Dam No. 9.....	7,961.04
Dam No. 9 to Dam No. 10.....	6,212.31
Dam No. 10 to Junction pole No. 62.....	2,138.03
Junction pole No. 62 to Pulp Mill Junction...	1,311.52
	<hr/>
	\$73,527.27

## Additional equipment on existing transmission lines:

Sidney terminal to Picton.....	\$309.80
Auburn switching station.....	7,298.22
Norwood to Auburn switching station.....	596.88
Ranney Falls to Ranney Junction.....	4.42
Dam No. 8 to Meyersburg.....	1,873.90
Dam No. 9 to Dam No. 9 Junction.....	3,922.38
Port Hope switching to Newcastle.....	5,197.56
Newcastle to Bowmanville.....	720.00
Bowmanville to Oshawa.....	2,320.00
Napanee to Kingston.....	75.56
Madoc switching station.....	2.60
Deloro switching station.....	2.60
Auburn switching station to Peterboro.....	4,568.46
Norwood to Havelock.....	37.64
Oshawa to Whitby rural.....	70.45
Warkworth station to Warkworth.....	5.10
	<hr/>
	27,005.57

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## Less—Equipment transferred to other lines and rural power districts, and capitalized thereon:

From Pump Mill line.....	\$32.65
From Dam No. 11 Campbellford Mills line...	69.00
From Dam No. 11, Hoards line.....	13,537.65
	<hr/>
	13,639.30

Total expenditure during the year on transmission lines.....	\$100,532.84	\$86,893.54
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## LOCAL UTILITIES

## Extensions to the following utilities:

Belleville—Electric.....	\$8,522.14
Bowmanville—Electric.....	7,005.98
Newcastle—Electric.....	188.20
Orono—Electric.....	546.81
Brighton—Electric.....	212.83
Cobourg—Electric.....	3,136.94
Cobourg—Gas.....	313.71
Cobourg—Water.....	5,644.79
Lindsay—Electric.....	4,519.32
Millbrook—Electric.....	319.96
Napanee—Electric.....	1,644.65
Deseronto—Electric.....	256.93
Newburgh—Electric.....	168.14
Oshawa—Electric.....	22,403.58
Oshawa—Gas.....	14,649.33
Port Hope—Electric.....	2,311.34
Peterboro—Gas.....	43,379.93
Peterboro—Street Railway.....	559.85
Trenton—Electric.....	1,242.16
Tweed—Electric.....	1,008.15

Total expenditures in the year on local utilities.....	\$118,034.74
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## PULP MILL AND BRUTON LIMITS

Extension to sluiceway at Byers Dam.....	\$633.73
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## RURAL POWER DISTRICTS

Oshawa rural power district—Extensions thereto . .	\$1,192.44	
Kingston rural power district—Extensions thereto	4,479.57	
Bowmanville rural power district—Construction thereof . . . . .	712.67	
Trenton rural power district—Construction thereof	705.84	
Campbellford rural power district—Construction thereof including lines transferred thereto from transmission lines . . . . .	13,931.33	
		\$21,021.85
Less—Amount of grant received in the year from the Provincial Government to reimburse the Commission to the extent of 50% of the cost of primary lines constructed in the year and 50% of the cost of practically all secondary lines constructed prior to 31st October, 1924 . . . . .		24,488.41

Excess of receipts over expenditures on rural power districts . . . . . \$3,466.56

NOTE—Additions not involving cash expenditure:

Rural lines taken over from Whitby, East  
Whitby and Pickering townships . . . . . \$18,876.58

## NIPISSING SYSTEM

## POWER DEVELOPMENTS

Bingham Chutes development—Construction . . . .	\$48,487.72
North Bay standby station—Construction . . . . .	30,299.43
Nipissing generating station—Installation of 1,400 kv-a. generator, new runner, and gates and wood stave pipes . . . . .	62,045.44
Reserve equipment—One 50 and one 25-kv-a. transformers . . . . .	731.05

Total expenditure in the year on power developments . . . . . \$141,563.64

## TRANSMISSION LINES

Construction of the following transmission lines:  
Bingham chute to Bingham chute Junction . . \$907.80  
Powassan Junction . . . . . 984.16

Total expenditure in the year on transmission lines . . . . . \$1,891.96

## LOCAL UTILITIES

Extensions to the following electric utilities:

North Bay . . . . .	\$7,320.04
Powassan . . . . .	708.50
Callander . . . . .	67.53
Nipissing . . . . .	4.00

Total expenditure in the year on local utilities . . . . . \$8,100.07

## TRANSFORMER STATIONS AND SERVICE BUILDING

Extensions to the following transformer stations:

North Bay . . . . .	\$51.50
Callander . . . . .	2,050.82

	\$2,102.32
Service building . . . . .	398.39

\$2,500.71

Less—Equipment transferred from Powassan Station to Bingham Chute Development and Callander Station . . . . .

4,243.55

Equipment transferred in excess of expenditures . . . . . \$1,742.84

## MISCELLANEOUS

## Capital Expenditures in the Fiscal Year ending 31st October, 1924

Upon service buildings and equipment.....	\$3,874.07	
Upon office buildings and equipment.....	5,524.32	
		<u>\$9,398.39</u>

## SERVICE BUILDINGS AND EQUIPMENT

Cafeteria equipment.....	\$69.31	
Storehouse equipment.....	227.00	
Garage equipment.....	125.39	
Machine shop equipment.....	1,409.20	
Meter repair shop equipment.....	207.93	
Laboratory equipment.....	2,788.51	
		<u>\$4,827.34</u>

Less—Equipment transferred to other accounts and capitalized thereon.....	953.27	
Total expenditures in the year on service buildings and equipment.....		<u>\$3,874.07</u>

## OFFICE BUILDINGS AND EQUIPMENT

Building on University Avenue:		
Installation of additional heating apparatus..	\$3,438.61	
Engineering expenses in connection with design of extension to present building.....	2,084.49	
	<u>\$5,523.10</u>	
Less—Equipment transferred to stores.....	31.39	
		<u>\$5,491.71</u>
Building on Elm Street:		
Improvement to walls of elevator shaft.....	32.61	
Total expenditures in the year on office buildings and equipment.....		<u>\$5,524.32</u>

## EXPENDITURES ON ACCOUNT OF THE PROVINCE

## in the Fiscal Year Ending 31st October, 1924

## POWER INVESTIGATIONS, SURVEYS, ETC.

Engineering assistance to non-operating municipalities and districts; gathering data for statistical purposes and estimates for the supply of power; also rate investigations....	\$3,985.05	
General hydrographic surveys, storage surveys, reports and investigations on power sites and stream flow, and special hydrographic investigations and reports.....	41,697.74	
Estimates, surveys, and demonstrations in rural districts.....	10,668.40	

## ELECTRICAL INSPECTION

Salaries and expenses of inspectors; expenses of local offices; inspection of electrical appliances, material, etc., and administration.....	\$248,614.47	
Less—Revenue from inspection fees.....	192,645.69	
		<u>55,968.78</u>

## PARRY SOUND DAM

Amount expended by the Commission in connection with repairs to Parry Sound dam, as authorized by Order-in-Council dated June 5, 1923.....	6,612.80	
		<u>\$118,932.77</u>

## ENGINEERING ASSISTANCE TO NON-OPERATING MUNICIPALITIES AND DISTRICTS, ETC.

Alfred.....	\$32.63	
Angus.....	34.00	
Arkona.....	30.18	
Avonmore.....	14.94	
Bayfield.....	200.26	
Beachburg.....	12.00	
Beamsville.....	64.01	

Blind River.....	\$10.92
Blyth.....	62.36
Winchester Springs.....	87.68
Bridgeport.....	64.20
Brussels.....	50.84
Cache Bay.....	23.95
Campbellville.....	111.90
Capreol.....	44.64
Cayuga.....	78.00
Clifford.....	110.92
Cochrane.....	223.05
Cornwall.....	17.27
Crysler.....	5.09
Erieau.....	77.50
Erie Beach.....	10.73
Finch.....	356.87
Fonthill.....	37.39
Fort William.....	228.47
Frankford.....	47.45
Grimsby.....	269.72
Hawkesbury.....	55.96
Hoath Head.....	5.73
Holland Centre.....	39.97
Inwood.....	25.55
Jarvis.....	16.24
Kenora.....	16.37
King.....	.10
LaSalle.....	100.00
Ansonville.....	76.55
Mattawa.....	60.23
Newington.....	6.94
Norval.....	6.12
Russell.....	10.92
St. Davids.....	5.61
South River.....	21.99
Stouffville.....	10.86
Sturgeon Falls.....	47.43
Sudbury.....	.50
Walton.....	22.19
Westboro.....	95.25
Wheatley.....	182.39
Warton.....	9.28
Pickering.....	62.71
Nipigon Village.....	91.74
Bertie Township.....	42.71
Cornwall Township.....	13.59
Downie Township.....	22.19
Flamboro Township East.....	29.80
Ellice Township.....	18.94
Gainsborough Township.....	4.28
Goderich Township.....	39.51
Gwillimbury Township.....	.80
Haldimand Township.....	5.76
Hallowell Township.....	8.53
King Township.....	4.90
London Township.....	8.49
Mara Township.....	10.92
North Grimsby Township.....	4.23
Rama Township.....	5.44
Trafalgar Township.....	93.97
Wawanosh Township.....	1.00
McKillop Township.....	20.01
Cayuga North Township.....	25.47
Douro Township.....	10.38
Rainham Township.....	8.49
Culvert Township.....	15.63
Grenville Gravel Company.....	141.31
Fort William Pulp and Paper Company.....	69.40
Courtaulds, Limited.....	101.70



## GENERAL HYDROGRAPHIC SURVEYS, STORAGE SURVEYS, REPORTS AND INVESTIGATIONS ON POWER SITES AND STREAM FLOW, ETC.

St. Lawrence River.....	\$20,080.61	
Ottawa River.....	17,983.25	
Mississippi River.....	77.51	
Ragged Rapids.....	493.66	
Burleigh Falls.....	1,082.67	
Saugeen River.....	252.63	
Miscellaneous hydraulic investigations.....	1,257.76	
Reports on Crown leases.....	469.65	
		<u>\$41,697.74</u>

## ESTIMATES, SURVEYS, AND DEMONSTRATIONS IN RURAL DISTRICTS

Head office expenses in connection  
with rural power districts:

Niagara system.....	\$3,455.35	
Severn system.....	306.32	
Eugenia system.....	154.38	
Waddell system.....	175.16	
St. Lawrence system.....	909.03	
Rideau system.....	40.43	
Thunder Bay system.....	310.12	
Rural general.....	3,980.18	
		<u>\$9,330.97</u>

Preliminary investigations and surveys  
in specific rural power districts:

Walton rural power district.....	\$118.52	
Stratford rural power district.....	117.84	
Chesterville rural power district.....	85.02	
Apple Hill rural power district.....	11.00	
Georgetown rural power district.....	67.32	
Milton rural power district.....	15.90	
Cobourg rural power district.....	16.32	
Colborne rural power district.....	92.77	
Belleville rural power district.....	24.79	
Madoc rural power district.....	47.00	
Lakefield rural power district.....	1.26	
Millbrook rural power district.....	2.50	
Ripley rural power district.....	18.57	
Neustadt rural power district.....	1.30	
Tara rural power district.....	11.60	
Chatsworth rural power district.....	42.69	
Owen Sound rural power district.....	18.32	
Shelburne rural power district.....	7.00	
Coldwater rural power district.....	25.14	
Waubashene rural power district.....	20.75	
Elmvale rural power district.....	33.74	
Camp Borden rural power district.....	37.04	
Thornton rural power district.....	18.17	
Innisfil rural power district.....	37.58	
Kirkfield rural power district.....	63.33	
Chippawa rural power district.....	59.60	
Dunnville rural power district.....	.60	
Waterdown rural power district.....	1.00	
Williamsburg rural power district.....	14.98	
Hagersville rural power district.....	166.95	
Barton rural power district.....	40.18	
Bloomfield rural power district.....	8.79	
Guelph rural power district.....	62.92	
Bolton rural power district.....	46.94	
		<u>\$1,337.43</u>
		<u>\$10,668.40</u>

## ELECTRICAL INSPECTION

Expenditures, including a proportion of the Administrative expenses of the Commission:

Through local offices—as per list below . . . . . \$225,318.99

Through Head Offices:

Salaries and expenses of Chief Inspector and staff. . . . . 7,506.73

Cost of investigation and studies re revision of rules and regulations for inside electrical installations, and expenses re specifications governing tests and construction of electrical appliances. . . . . 7,941.53

Approval tests and inspection of electrical material devices, fittings, etc., manufactured and sold in Ontario; enforcement of regulations of the Commission respecting electrical material devices, etc. . . . . 7,847.22

\$248,614.47

Revenue from inspection fees—as per list below . . . . . 192,645.69

Expenditure in excess of revenue . . . . . \$55,968.78

Expenditure through local offices and revenue from inspection fees:

	Expenditures	Revenue
Bancroft . . . . .	\$22.55	\$3.06
Barrie . . . . .	4,768.66	1,921.22
Belleville . . . . .	4,844.15	2,071.39
Brantford . . . . .	6,661.04	5,586.71
Brockville . . . . .	4,937.08	3,658.19
Chatham . . . . .	5,106.69	3,335.86
Cochrane . . . . .	175.57	810.03
Fort Frances . . . . .	8.36	13.03
Guelph . . . . .	4,185.84	3,696.24
Hamilton . . . . .	16,048.07	15,468.35
Kenora . . . . .	573.05	637.86
Kingston . . . . .	3,615.41	2,612.33
Kitchener . . . . .	9,165.19	9,505.53
London . . . . .	9,915.35	9,083.24
Niagara Falls . . . . .	7,779.34	5,391.60
Orangeville . . . . .	5,508.12	1,389.07
Orillia . . . . .	4,055.85	1,707.77
Oshawa . . . . .	8,599.50	6,279.34
Ottawa . . . . .	11,892.60	8,516.82
Peterboro . . . . .	4,859.66	1,758.54
Port Arthur . . . . .	4,492.29	3,313.59
Sault Ste. Marie . . . . .	3,117.55	2,199.75
Sarnia . . . . .	4,016.73	2,541.99
St. Catharines . . . . .	5,219.82	4,957.56
Stratford . . . . .	3,826.77	2,593.10
St. Thomas . . . . .	4,517.31	2,922.61
Sudbury . . . . .	8,557.46	5,486.01
Sioux Lookout . . . . .	83.97	135.20
Timmins . . . . .	1,246.74	1,365.35
Toronto . . . . .	62,467.54	67,003.11
Windsor . . . . .	12,405.61	14,846.29
Woodstock . . . . .	2,645.12	1,834.95
	<u>\$225,318.99</u>	<u>\$192,645.69</u>

**HYDRO RADIAL RAILWAYS**

On the Sandwich, Windsor and Amherstburg Railway.....	\$427,015.40
On the Guelph Radial Railway.....	\$2,540.39
On the Toronto and York Radial Railway.....	\$337,847.96
On the Port Credit-St. Catharines Radial Railway.....	\$4,207.84
On the Toronto-Port Credit Radial Railway—Excess of receipts over expenditures	\$230,192.47

**Sandwich, Windsor and Amherstburg Railway**

Improvements to track and roadbed.....	\$84,294.82
Double tracking on Wyandotte, Erie, Wellington and Ottawa Streets and diversion at Walkerville.....	101,780.52
Improvements to trolley system, feeder system, and telephone lines.....	21,505.28
Improvements to shelters, heating equipment, car barns and freight shed.....	2,796.48
Five blocks of Nachod signals.....	7,028.59
Subway to connect Wyandotte and Ottawa Streets—preliminary engineering.....	430.67
Double-truck safety cars—balance.....	175,989.96
Two interurban cars—payments on account.....	7,584.50
Improvements to six cars.....	4,405.58
Sundry improvements to cars.....	2,188.98
Godfredson 2½-ton truck.....	5,050.49
Shop equipment and furniture.....	1,333.60
Rotary converter station, Windsor.....	12,625.93

Total expenditure during the year on Sandwich, Windsor and Amherstburg Railway.....	\$427,015.40
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**Guelph Radial Railway**

Improvements to track and roadbed.....	\$1,665.79
Improvements to trolley system.....	157.28
Steel safe.....	403.41
Sundry improvements to cars.....	176.54
Shop equipment and furniture.....	137.37

Total expenditure during the year on Guelph Radial Railway.....	\$2,540.39
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## Toronto and York Radial Railway

## METROPOLITAN DIVISION

Construction of new terminal at North Toronto, including land, track layout, station, car barns, etc.—balance.....	\$5,200.71	
Improvements to track and roadbed, feeder system, etc.....	22,905.73	
Construction of new substation at Sedore—balance	941.24	
Improvements to substation equipment.....	247.50	
Improvements to cars.....	674.38	
Purchase of electric locomotive.....	12,911.45	
Engineering re new cars.....	1,503.34	
Purchase of shop tools, track tools and furniture..	903.96	
Improvements to buildings.....	5,682.87	
Improvements to parks.....	693.79	
Construction of ten new passing sidings.....	29,866.01	
Installation of Nachod signal system—balance....	2,510.34	
Construction of shelters.....	848.95	
Construction of new culvert at mileage 6.8 on Schomberg line—balance.....	845.02	
Proportion of cost of construction of Aurora subway	24,647.25	
	<u>\$110,382.54</u>	
Less—Value of gravel used from pits.....	323.70	
		<u>\$110,058.84</u>

NOTE:—Capital cost of Metropolitan Division  
reduced in year by properties sold, \$109,226.37.

## SCARBORO DIVISION

Improvements to track and roadbed.....	\$7,243.61	
Improvements to overhead system.....	1,140.02	
Improvements to substation.....	35.88	
Purchase of furniture, etc.....	59.07	
Payments on account of five new cars.....	76,409.90	
Improvements to cars.....	146.60	
Purchase of land and engineering for new terminal.	2,933.09	
	<u>\$88,148.17</u>	
Less—Proceeds from sale of properties..	\$234.38	
Value of gravel used from pits....	1,545.93	
	<u>1,780.31</u>	
		<u>\$86,367.86</u>

## MIMICO DIVISION

Improvements to track and roadbed.....	\$17,306.38	
Construction of interchange siding with C.N.R. at St. Lawrence Starch Works.....	1,233.19	
Improvements to substations.....	221.01	
Construction of new substation at Lakeview— balance.....	21,565.49	
Engineering re proposed new terminal Jane Street.	190.21	
Purchase of furniture, etc.....	985.02	
Four double truck passenger cars and equipment..	93,039.08	
Construction of shelters.....	433.68	
Improvements to cars.....	4,447.20	
	<u>141,421.26</u>	

Total expenditure during the year on Toronto and York Radial Railways \$337,847.96

**Port Credit to St. Catharines Radial Railway****Port Credit to St. Catharines Line**

Expenditures for creosoting and handling ties and for insurance thereon.....	\$2,106.24	
Taxes and legal expenses.....	240.58	
Interest on total expenditures.....	22,079.12	
		<u>\$24,425.94</u>
Realized on ties sold.....		20,218.10
		<u>20,218.10</u>
Total expenditure during the year on Port Credit to St. Catharines Radial Railway.....		\$4,207.84

**Toronto to Port Credit Radial Railway**

Taxes and other rentals—less property rentals....	\$7,412.07	
Interest on total expenditures.....	45,895.14	
		<u>\$53,337.21</u>
Properties sold to Niagara System for use as right-of-way for transmission line.....		283,529.68
Excess of receipts over expenditures on Toronto to Port Credit Radial Railway.....		\$230,192.47

RURAL POWER DISTRICTS

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

SUMMARY

System	Capital expenditures		Investment in lines in operation		Grants payable by the Province (50% of primary and secondary lines)	Extent to which grants stand authorized by orders-in-council	Grants paid by Province to Commission under such authorizations
	Total	For work in course of construction	Primary lines	Secondary lines			
Niagara system.....	\$ 1,681,568.55 C. 87,467.40	\$ 52,963.00 C. ....	\$ 1,017,161.78 C. 57,132.21	\$ 611,443.77 C. 30,335.19	\$ 812,648.99 C. 35,098.84	\$ 1,058,517.90 C. 46,723.51	\$ 1,042,611.78 C. 46,311.12
Georgian Bay system.....	\$ 56,372.48 C. 46,981.63	7,784.40	\$ 44,411.19 C. 30,195.14	\$ 11,961.29 C. 9,002.09	\$ 28,186.24 C. 19,598.62	\$ 28,446.72 C. 26,125.76	\$ 28,446.72 C. 26,125.76
St. Lawrence system.....	1,872,390.06 95,157.94	60,747.40	1,148,900.32 61,922.70	662,742.34 33,235.24	895,532.69 47,578.97	1,159,813.89 51,083.33	1,143,495.38 50,927.33
Ottawa system.....	1,967,548.00	60,747.40	1,210,823.02	695,977.58	943,111.66	1,210,897.22	1,194,422.71
Central Ontario system....							
Totals.....							

NOTE:—The cash paid over by the Province to the Commission up to October 31, 1924, on account of authorized grants to rural power districts—as above set out—amounts to..... \$1,194,422.71

The grants payable by the Province—as above set out—in respect of rural power districts in operation as at October 31, 1924, amount in the aggregate to..... 943,111.66

A balance of..... \$251,311.05

Which balance represents:—

(a) Grant funds in the hands of the Commission at October 31, 1924, to apply against certain rural power districts in course of construction, extensions to existing districts, and the transfer of certain existing “rural lines” to “rural power districts”..... \$267,010.62

Less:—

(b) Grants (or balances thereof) payable by the Province to the Commission in respect of certain rural power districts completed and in operation..... 15,699.57

\$251,311.05



## RURAL POWER DISTRICTS—Continued

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

## NIAGARA SYSTEM

Rural power district	Townships	Capital expenditures		Investment in lines in operation		Grant payable by the Province (50% of primary and secondary lines)	Orders-in-council authorizing Grant		Grant paid by Province to Commission under such authorization
		Total	For work in course of construction	Primary lines	Secondary lines		Date	Amount authorized	
N 1D1	Niagara.....	\$ 42,798.03	\$ c.	\$ c.	\$ c.	\$ c.	Sept. 20, 1921	\$ c.	\$ c.
			.....	32,335.07	10,462.96	21,399.02	Sept. 19, 1923	3,190.00	3,190.00
							July 2, 1924	10,154.53	10,154.53
							Oct. 31, 1924	2,005.00	2,005.00
								9,862.52	9,862.52
								25,212.05	25,212.05
N 1D2	Homer.....	9,750.10	9.76	4,561.20	5,179.14	4,870.17	July 25, 1922	583.86	583.86
							Dec. 20, 1922	1,054.21	1,054.21
							Mar. 2, 1923	13,851.47	13,851.47
							Aug. 21, 1923	130.27	130.27
							Jan. 2, 1924	686.49	686.49
							Feb. 14, 1924	237.99	237.99
							Oct. 31, 1924	10,137.03	10,137.03
								26,681.32	26,681.32
N 1D3	Jordan.....	28,236.77	.....	19,308.51	8,928.26	14,118.39	June 23, 1922	1,461.54	1,461.54
							June 23, 1922	4,410.43	4,410.43
							Dec. 20, 1922	694.77	694.77
							Mar. 2, 1923	1,385.59	1,385.59
							April 23, 1923	335.96	335.96
							Sept. 12, 1923	108.53	108.53

N 1D4	Beamsville...	Grimsby N. (part)... Clinton (all) Louth (part)	110,389.74	2,606.69	73,289.73	34,493.32	52,237.75	Nov. 16, 1923	77.47
								Oct. 31, 1924	9,296.58
									17,770.87
								June 23, 1922	35,944.20
N 1D5	Welland.....	Crowland (all)..... Humberstone (part). Thorold (part) Pelham (part) Wainfleet (part)	86,243.28	7.56	54,688.98	31,546.74	43,117.86	April 23, 1923	35,944.20
								May 3, 1923	261.26
								June 26, 1923	81.89
								Sept. 12, 1923	460.95
								Sept. 19, 1923	746.98
								Jan. 2, 1924	135.48
								Feb. 14, 1924	798.06
								July 2, 1924	180.17
								Sept. 12, 1924	2,460.00
								Sept. 12, 1924	1,037.00
								Oct. 31, 1924	1,022.00
									13,700.28
N 1D6	Stamford....	Stamford (part)..... Thorold (part)	16,752.69	1.22	8,046.14	8,705.33	8,375.73	June 23, 1922	56,828.27
								July 25, 1922	427.25
								Mar. 2, 1923	150.15
								Nov. 29, 1923	1,734.27
N 1D7	Chippawa...	Willoughby (part)... Bertie (part)	28,232.86	.....	21,592.93	6,639.93	14,116.43	July 2, 1924	1,734.27
								Oct. 31, 1924	137.30
									651.50
									24,745.02
									27,845.49
									b 27,845.49
								June 23, 1922	3,726.94
								Mar. 13, 1923	3,726.94
								Mar. 2, 1923	136.17
								Oct. 31, 1924	2,136.89
									4,302.94
									10,302.94
								June 23, 1922	10,302.94
								Oct. 31, 1924	6,214.05
									8,126.90
									14,340.95

<sup>a</sup> Grant received in respect of rural power districts shown hereon and also in respect of lines in course of transfer from "rural lines" to "rural power districts."

<sup>b</sup> Application is being made for a further order-in-council.

## RURAL POWER DISTRICTS—Continued

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

## NIAGARA SYSTEM—Continued

	Rural power district	Townships	Capital expenditures		Investment in lines in operation		Grant payable by the Province (50% of primary and secondary lines)	Orders-in-council authorizing grant		Grant paid by Province to Commission under such authorization
			Total	For work in course of construction	Primary lines	Secondary lines		Date	Amount authorized	
N 2D1	Dundas.....	Ancaster (part)..... Flamboro W. (part) Beverley (part)	\$ c. 31,688.10	\$ c. 4,972.82	\$ c. 18,988.02	\$ c. 7,727.26	\$ c. 13,357.64	Sept. 20, 1921 Nov. 29, 1921 Mar. 2, 1923 July 2, 1924 Oct. 31, 1924	\$ c. 3,787.00 329.91 14,336.09 314.00 18,547.18	\$ c. 3,787.00 329.91 14,336.09 314.00 18,547.18
N 2D2	Lynden.....	Ancaster (part)..... Beverley (part)	31,504.33	251.19	25,418.07	5,835.07	15,626.57	Sept. 20, 1921 Sept. 20, 1921 Aug. 21, 1923 Jan. 22, 1924 July 2, 1924 Oct. 31, 1924	4,423.00 4,423.00 6,924.12 210.68 117.00 81.49	4,423.00 4,423.00 6,924.12 210.68 117.00 81.49
N 2D3	Waterdown...	Flamboro E. (part)..	13,332.38	3,350.43	6,585.50	3,396.45	4,990.98	June 23, 1922 Mar. 2, 1923 Mar. 13, 1923 Aug. 21, 1923 Aug. 21, 1923 Oct. 12, 1923 Nov. 16, 1923	1,614.40 4,486.75 44.89 2,404.58 566.19 565.27 53.42	1,614.40 4,486.75 44.89 2,404.58 566.19 565.27 53.42



N 2D7	Barton.....	Barton (part)..... Glanford (part) Ancaster (part)	8,768.80	36.55	4,896.79	3,835.46	4,366.12	July 2, 1924	1,748.58	1,748.58
								Oct. 31, 1924	6,669.59	6,669.59
									18,153.67	a 18,153.67
N 3D1	Markham....	Markham (part).... Scarboro (part)	21,090.75	.....	14,088.74	7,002.01	10,545.37	Nov. 29, 1923	2,137.16	2,137.16
								Sept. 12, 1924	2,210.50	2,210.50
								Oct. 31, 1924	2,316.40	2,316.40
N 3D2	Scarborough.	Scarborough (part).	8,292.87	.....	5,258.06	3,034.81	4,146.44		6,664.06	6,664.06
								June 23, 1922	6,071.48	6,071.48
								Aug. 1, 1923	291.95	291.95
N 3D3	Bond Lake...	King (part)..... Vaughan (part) Markham (part) Whitchurch (part)	39,211.63	.....	14,273.75	24,937.88	19,605.81	Oct. 31, 1924	4,295.60	4,295.60
								Sept. 19, 1923	10,659.03	10,659.03
								Nov. 16, 1923	2,325.68	2,325.68
N 3D4	Newmarket..	Whitchurch (part).. King (part)	2,371.45	.....	2,371.45	2,371.45	1,185.72	Nov. 16, 1923	16.10	16.10
								Nov. 16, 1923	380.28	380.28
								Jan. 2, 1924	154.76	154.76
								Mar. 1, 1924	1,545.69	1,545.69
								Oct. 31, 1924	4,422.51	4,422.51
									485.28	485.28
								Nov. 16, 1923	1,665.04	1,665.04
								Jan. 22, 1924	1,094.05	1,094.05
								Mar. 1, 1924	4,155.59	4,155.59
								July 2, 1924	266.57	266.57
								Oct. 31, 1924	16,938.13	16,938.13
									24,604.66	24,604.66
								July 2, 1924	6.67	6.67
								Oct. 31, 1924	1,712.67	1,712.67
									1,719.34	1,719.34

<sup>a</sup> Grant received in respect of rural power districts shown hereon and also in respect of lines in course of transfer from "rural lines" to "rural power districts."

## RURAL POWER DISTRICTS—Continued

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

## NIAGARA SYSTEM—Continued

	Rural power district	Townships	Capital expenditures		Investment in lines in operation		Grant payable by the Province (50% of primary and secondary lines)	Orders-in-council authorizing grant		Grant paid by Province to Commission under such authorization
			Total	For work in course of construction	Primary lines	Secondary lines		Date	Amount authorized	
N 3D5	Keswick.....	Gwillimbury N. (pt.) Georgina (part)	\$ 21,670.03	\$ c. .....	\$ 6,774.65	\$ 14,895.38	\$ c. 10,835.02	Nov. 16, 1923 Jan. 2, 1924 July 2, 1924 Sept. 12, 1924 Oct. 31, 1924	\$ c. 568.47 957.67 65.45 901.00 9,184.25	\$ 568.47 957.67 65.45 901.00 9,184.25
N 3D6	Mount Joy..	Markham (part)..... Pickering (part) Whitchurch (part) Uxbridge (part)	925.93	.....	.....	925.93	462.97	Oct. 31, 1924	550.34	550.34
N 3D7	Lansing.....	Vaughan (part)..... Scarborough (part) York North (part)	28,939.23	1,099.50	14,899.05	12,940.68	13,919.86	Jan. 2, 1924 Feb. 14, 1924 Mar. 1, 1924 May 29, 1924 May 29, 1924 July 2, 1924 Sept. 12, 1924 Oct. 30, 1924 Oct. 31, 1924	1,494.19 230.46 801.12 83.40 443.90 259.29 1,258.50 634.00 11,860.23	1,494.19 230.46 801.12 83.40 443.90 259.29 1,258.50 634.00 11,860.23
									17,065.09	16,431.09

N 4D1	Dorchester...	Missouri West (part) Missouri East (part) Oxford North (part) Dorchester N. (pt.) Dorchester S. (pt.) Westminster (part) Yarmouth (part) London (part)	67,048.16	182.87	42,648.03	24,217.26	33,432.65	Sept. 20, 1921 Mar. 13, 1923 Mar. 2, 1923 Aug. 21, 1923 Aug. 21, 1923 Sept. 19, 1923 Nov. 16, 1923 July 2, 1924 Oct. 30, 1924 Oct. 31, 1924	18,933.00	18,933.00	18,933.00
									95.25	95.25	95.25
N 4D2	London.....	London (part)..... Westminster (part)	117,055.19	17,985.26	51,947.65	47,122.28	49,534.96	July 25, 1922 Mar. 13, 1923 Mar. 22, 1923 May 3, 1923 Aug. 21, 1923 Sept. 12, 1923 Jan. 2, 1924 Jan. 2, 1924 Jan. 2, 1924 July 2, 1924 Sept. 12, 1924 Sept. 12, 1924 Oct. 30, 1924 Oct. 30, 1924 Oct. 30, 1924 Oct. 30, 1924 Oct. 31, 1924	2,952.49	2,952.49	2,952.49
									85.62	85.62	85.62
N 4D3	Delaware....	Caradoc (part)..... Delaware (all) London (part) Ekfrid (part) Lobo (part)	36,871.52	.....	24,290.18	12,581.34	18,435.76	July 25, 1922 July 25, 1922 June 26, 1923 Aug. 21, 1923 Sept. 12, 1923 Jan. 2, 1924 Oct. 31, 1924	4,862.93	4,862.93	4,862.93
									5,881.09	5,881.09	5,881.09
									246.46	246.46	246.46
									198.16	198.16	198.16
									1,023.04	1,023.04	1,023.04
									96.32	96.32	96.32
									6,332.98	6,332.98	6,332.98
									18,640.98	18,640.98	18,640.98



## RURAL POWER DISTRICTS—Continued

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

## NIAGARA SYSTEM—Continued

	Rural power district	Townships	Capital expenditures		Investment in lines in operation		Grant payable by the Province (50% of primary and secondary lines)	Orders-in-council authorizing grant		Grant paid by Province to Commission under such authorization
			Total	For work in course of construction	Primary lines	Secondary lines		Date	Amount authorized	
			\$ c.	\$ c.	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.
N 4D5	Lucan.....							Oct. 31, 1924	166.63	166.63
N 4D6	Exeter.....	Hay (part) Stephen (part) Usborne (part)	21,946.91		15,361.65	6,585.26	10,973.46	July 25, 1922 Sept. 27, 1922 Oct. 31, 1922	6,674.99 369.67 4,044.57	6,674.99 369.67 4,044.57
N 5D1	Acton.....							Nov. 16, 1923 Oct. 31, 1924	125.68 89.45	125.68 89.45
N 5D2	Georgetown..	Esquesing (part)...	6,108.29	6,108.29				July 2, 1924	215.13	215.13
N 5D3	Guelph.....	Puslinch (part) ....	0.62	0.62				Sept. 12, 1924 Oct. 30, 1924	3,353.23 2,271.00 2,722.50	3,353.23 2,271.00 2,722.50
N 6D1	Preston.....	Waterloo (part).....	76,874.52		50,601.19	26,273.33	38,437.26	June 23, 1922 July 25, 1922 Mar. 2, 1923 Mar. 13, 1923	4,993.50 329.92 1,109.33 15,213.92 5,827.23	4,993.50 329.92 1,109.33 15,213.92 5,827.23

N 6D2	Galt.....	Dumfries N. (part) .	6,735.30 .....		4,114.15	2,621.15	3,367.65	Mar. 13, 1923	220.36	220.36
								Aug. 21, 1923	2,128.87	2,128.87
								Sept. 19, 1923	500.89	500.89
								Sept. 12, 1924	225.50	225.50
N 7D1	Baden.....	Wilmot (all).....	12,871.42 .....		7,721.30	5,150.12	6,435.71	Aug. 21, 1923	1,416.67	1,416.67
								Mar. 2, 1923	3,733.63	3,733.63
								Oct. 31, 1924	1,277.35	1,277.35
									3,372.88	3,372.88
N 7D2	St. Jacobs....	Woolwich (part) ... Wellesley (part)	37,155.58 .....		23,968.87	13,186.71	18,577.79	July 25, 1922	2,561.34	2,561.34
								Mar. 2, 1923	2,224.48	2,224.48
								Sept. 19, 1923	7,018.89	7,018.89
								Mar. 1, 1924	3,649.57	3,649.57
N 8D1	Tavistock....	Easthope N. (part) .	10,292.54 .....		7,403.56	2,888.98	5,146.27	July 2, 1924	107.32	107.32
								July 2, 1924	263.50	263.50
								Oct. 31, 1924	11,535.96	11,535.96
									27,361.06	27,361.06
N 8D2	Goderich.....							Sept. 27, 1922	2,670.83	2,670.83
								Oct. 31, 1924	2,374.02	2,374.02
									5,044.85	5,044.85
								Mar. 2, 1923	1,401.53	1,401.53
								Oct. 31, 1924	603.65	603.65
									2,005.18	2,005.18

*b* Application is being made for a further order-in-council.  
*c* Grant received in respect of lines in course of transfer from "rural lines" to "rural power districts."  
*d* Grant received in respect of a rural power district to be constructed.

## RURAL POWER DISTRICTS—Continued

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

## NIAGARA SYSTEM—Continued

Rural power district	Townships	Capital expenditures		Investment in lines in operation		Grant payable by the Province (50% of primary and secondary lines)	Orders-in-council authorizing grant		Grant paid by Province to Commission under such authorization
		Total	For work in course of construction	Primary lines	Secondary lines		Date	Amount authorized	
N 8D3	Walton.....	\$ 1,552.04	\$ c. 1,552.04	\$ c.	\$ c.	\$ c.	Sept. 12, 1924	\$ 832.14	\$ 832.14
N 8D4	Morris (part)..... Grey (part) McKillop (part) Downie (part).....	8,301.97	103.15	4,503.08	3,695.74	4,099.41	Mar 2, 1923 Oct. 31, 1924	1,835.25 2,951.61	1,835.25 2,951.61
N 10D1	Norwich.....						Mar. 2, 1923 Mar. 22, 1923 Oct. 31, 1924	14,768.43 2,801.05 9,636.54	14,768.43 2,801.05 9,636.54
N 10D2	Woodstock... Oxford East (part).. Oxford West (part) Zorra East (part) Blandford (part)	91,855.46		62,755.09	29,100.37	45,927.73	June 23, 1922 July 25, 1922 Dec. 27, 1922 Dec. 27, 1922 Mar. 2, 1923 Mar. 22, 1923 Aug. 21, 1923 Oct. 31, 1924	27,206.02 20,736.21 7,980.20 71.00 246.65 2,156.93 1,919.08 145.10 13,386.48	c 27,206.02 20,736.21 7,980.20 71.00 246.65 2,156.93 1,919.08 145.10 13,386.48
								46,641.65	46,641.65



N 10D3	Ingersoll.....	Dorchester N. (pt.), Dereham (part) Oxford, West (part)	822.46	.....	642.55	179.91	411.23	Mar. 2, 1923 Oct. 31, 1924	321.27 89.96	321.27 89.96
N 10D4	Tillsonburg..	Middleton (part)...	12,327.87	.....	7,716.07	4,611.80	6,163.93	Mar. 2, 1923 Apr. 23, 1923 Oct. 31, 1924	14,621.75 3,642.02 14,680.21	14,621.75 3,642.02 14,680.21
N 11D1	St. Thomas..	Yarmouth (part).. Southwold (part)	70,823.68	.....	45,240.44	25,583.24	35,411.84	Mar. 2, 1923 Aug. 1, 1923 Aug. 21, 1923 Nov. 29, 1923 Jan. 2, 1924 Oct. 31, 1924	3,442.14 18,814.31 1,500.34 294.34 44.68 13,966.01	3,442.14 18,814.31 1,500.34 294.34 44.68 13,966.01
N 11D2	Aylmer.....	Dorchester S. (pt.).. Malahide (part) Yarmouth (part)	13,339.94	58.92	9,202.22	4,078.80	6,640.51	Nov. 16, 1923 Mar. 2, 1923 July 2, 1924 Oct. 31, 1924	3,561.79 1,502.23 1,926.80 1,356.30	3,561.79 1,502.23 1,926.80 1,356.30
N 12D1	Brant.....	Brantford (part) .... Dumfries S. (part)	26,351.10	.....	16,525.80	9,825.30	13,175.55	June 23, 1922 July 25, 1922 Mar. 2, 1923 Aug. 21, 1923 Jan. 22, 1924 Jan. 22, 1924	13,078.43 177.42 1,355.72 383.07 88.11 736.78	13,078.43 177.42 1,355.72 383.07 88.11 736.78
N 12D3	Waterford...	Townsend.....	4,723.56	.....	4,617.06	106.50	2,361.78	Mar. 2, 1923 Aug. 1, 1923 Oct. 31, 1924	15,819.53 1,899.93 102.50 1,181.73	15,819.53 1,899.93 102.50 1,181.73
									3,184.16	3,184.16

*c* Grant received in respect of lines in course of transfer from "rural lines" to "rural power districts."

## RURAL POWER DISTRICTS—Continued

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

## NIAGARA SYSTEM—Continued

	Rural power district	Townships	Capital expenditures		Investment in lines in operation		Grant payable by the Province (50% of primary and secondary lines)	Orders-in-council authorizing grant		Grant paid by Province to Commission under such authorization
			Total	For work in course of construction	Primary lines	Secondary lines		Date	Amount authorized	
			\$ c.	\$ c.	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.
N 12D5	Drumbo.....	Blenheim (part)..... Blandford (part)	12,988.57	.....	8,378.13	4,610.44	6,494.28	June 23, 1922 July 25, 1922 Oct. 31, 1924	4,451.73 183.53 1,948.49	4,451.73 183.53 1,948.49
N 12D6	Simcoe.....	Woodhouse (part)...	2,428.12	.....	752.70	1,675.42	1,214.06	Sept. 27, 1922 Oct. 31, 1924	200.58 1,036.99	200.58 1,036.99
N 13D1	Streetsville...	Toronto (part).....	2,069.65	11.20	1,767.64	290.81	1,029.23	July 25, 1922 Oct. 31, 1924	1,237.57 865.76 178.46	1,237.57 865.76 178.46
N 13D2	Brampton...	Chinguacousy (pt.). Toronto (part)	2,547.94	.....	1,647.08	900.86	1,273.97	Mar. 2, 1923 June 26, 1923 Oct. 31, 1924	1,044.22 294.44 960.73 679.80	1,044.22 294.44 960.73 679.80
									1,934.97	1,934.97

N 14D1	Chatham....	Raleigh (part)..... Harwich (part) Dover (part)	45,727.52	1,044.66	30,244.86	14,438.00	22,341.43	Nov. 29, 1921 June 23, 1922 July 25, 1922 Sept. 27, 1922 Mar. 2, 1923 Apr. 23, 1923 Aug. 1, 1923 Aug. 21, 1923 May 29, 1924 Oct. 31, 1924	9,906.83 901.95 747.08 729.85 321.36 1,983.06 1,146.45 2,329.63 2,820.86 5,778.80 26,665.87	9,906.83 901.95 747.08 729.85 321.36 1,983.06 1,146.45 2,329.63 2,820.86 5,778.80 26,665.87
N 14D2	Ridgetown...	Howard (part)..... Orford (part) Harwich (part)	40,066.38	.....	28,118.19	11,948.19	20,033.19	Sept. 20, 1921 June 23, 1922 June 23, 1922 July 25, 1922 Oct. 31, 1924	3,787.00 7,442.73 743.60 5,071.92 3,056.94 20,102.19	3,787.00 7,442.73 743.60 5,071.92 3,056.94 20,102.19
N 14D3	Blenheim....	Harwich (part)..... Raleigh (part)	7,784.37	589.72	3,840.57	3,354.08	3,597.32	Mar. 12, 1923 Aug. 1, 1923 Sept. 12, 1924 Oct. 31, 1924	4,631.36 337.87 1,013.50 3,477.41 9,460.14	4,631.36 337.87 1,013.50 3,477.41 9,460.14
N 14D4	Sarnia.....	Sarnia (part)..... Moore (part)	21,416.77	1,699.90	7,693.68	12,023.19	9,858.43	Mar. 13, 1923 June 26, 1923 Sept. 12, 1923 Jan. 2, 1924 July 2, 1924 Oct. 31, 1924	3,080.67 3,371.49 1,501.34 478.83 1,398.00 6,359.78 16,190.11	3,080.67 3,371.49 1,501.34 478.83 1,398.00 6,359.78 16,190.11
N 14D5	Petrolia.....	Sarnia (part).....	3,126.77	.....	1,613.88	1,512.89	1,563.38	June 26, 1923 May 29, 1924 Oct. 31, 1924	821.51 271.84 592.33 1,685.63	821.51 271.84 592.33 1,685.63





N 15D1	Sandwich....	Sandwich W. (part) Sandwich E. (part) Sandwich S. (part)	70,914.03	8,597.76	25,570.04	36,746.23	31,158.13	Sept. 20, 1921 Mar. 2, 1923 June 26, 1923 Aug. 1, 1923 Aug. 21, 1923 Aug. 21, 1923 Sept. 12, 1923 Jan. 2, 1924 May 29, 1924 May 29, 1924 Sept. 12, 1924 Sept. 12, 1924 Oct. 30, 1924 Oct. 30, 1924 Oct. 31, 1924	5,685.00 7,480.14 709.64 658.41 96.74 261.00 229.84 1,569.15 187.79 55.10 901.40 11,351.50 1,157.00 489.50 15,245.31	5,685.00 7,480.14 709.64 658.41 96.74 261.00 229.84 1,569.15 187.79 55.10 901.40 11,351.50 1,157.00 489.50 15,245.31
N 15D2	Belle River..	Rochester (part) ... Maidstone (part)	26,791.73	.....	17,471.09	9,320.64	13,395.86	July 25, 1922 Oct. 31, 1924	46,077.52	44,431.02
N 15D3	Amherstburg.	Malden (part). .... Anderdon (part)	15,912.48	.....	8,824.79	7,087.69	7,956.24	Sept. 12, 1924 Jan. 2, 1924 July 2, 1924 Oct. 31, 1924	13,574.53	13,574.53
N 15D4	Harrow. ....	Colchester S. (pt.) ..	720.08	.....	211.82	508.26	360.04	July 2, 1924	8,183.63	8,183.63
N 15D5	Kingsville. ...	Gosfield S. (part)	25,381.39	.....	13,974.43	11,406.96	12,690.70	Mar. 2, 1923 May 3, 1923 Aug. 21, 1923 Nov. 16, 1923 July 2, 1924 Sept. 12, 1924 Oct. 31, 1924	379.60	379.60
									2,606.29 2,529.99 245.71 1,030.82 2,249.00 529.13 8,205.18	2,606.29 2,529.99 245.71 1,030.82 2,249.00 529.13 8,205.18
									17,396.12	17,396.12

*d* Grant received in respect of a rural power district to be constructed.

## RURAL POWER DISTRICTS—Continued

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

## NIAGARA SYSTEM—Continued

Rural power district	Townships	Capital expenditures		Investment in lines in operation		Grant payable by the Province (50% of primary and secondary lines)	Orders-in-council authorizing grant		Grant paid by Province to Commission under such authorization
		Total	For work in course of construction	Primary lines	Secondary lines		Date	Amount authorized	
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.
N 15D6	Leamington..	22,195.98	.....	9,037.17	13,158.81	11,097.99	Mar. 2, 1923 Nov. 16, 1923 Nov. 16, 1923 Sept. 12, 1924 Oct. 31, 1924	3,798.92 1,008.44 Cr. 240.45 564.02 6,713.81	3,798.92 1,008.44 Cr. 240.45 564.02 6,713.81
N 16D1	Woodbridge..	13,958.39	2,561.29	7,779.65	3,617.45	5,698.55	Mar. 2, 1923 Mar. 13, 1923 July 2, 1924 July 2, 1924 Sept. 12, 1924 Oct. 31, 1924	11,532.00 1,356.38 219.50 2,483.53 2,360.00 7,828.80	11,532.00 1,356.38 219.50 2,483.53 2,360.00 7,828.80
N 16D2	Bolton.....	1,556.35	.....	1,269.93	286.42	778.18	Mar. 2, 1923 July 2, 1924 Oct. 31, 1924	25,780.21 737.55 995.50 2,672.37	a 25,780.21 737.55 995.50 2,672.37
								4,405.42	c 4,405.42



N 17D1	Saltfleet.....	158,283.34	131.60	105,432.69	52,719.05	79,075.87	Sept. 20, 1921 Mar. 13, 1923 May 3, 1923 Oct. 12, 1923 Nov. 16, 1923 Nov. 29, 1923 Jan. 22, 1924 Oct. 30, 1924 Oct. 31, 1924	39,100.00 294.77 344.80 331.14 184.07 1,592.47 275.24 225.00 38,681.49	39,100.00 294.77 344.80 331.14 184.07 1,592.47 275.24 225.00 38,681.49
	Totals.....	1,681,568.55	52,963.00	1,017,161.78	611,443.77	812,648.99		81,028.98	80,803.98
								1,058,517.90	1,042,611.78

**GEORGIAN BAY SYSTEM**  
(Combining Systems formerly known as Severn, Eugenia and Wasdells)

S 1D1	Midland.....	.....	.....	.....	.....	.....	Nov. 29, 1923 Oct. 31, 1924	375.35 168.53	375.35 168.53
S 4D1	Barrie.....	8,321.33	.....	5,535.83	2,785.50	4,160.67	Sept. 27, 1922 Aug. 21, 1923 Oct. 31, 1924	543.88 <i>d</i>	543.88 <i>d</i>
S 5D1	Nottawasaga.....	15,058.56	.....	9,319.33	5,739.23	7,529.28	Nov. 29, 1921 Oct. 31, 1924	2,846.56 178.79 1,386.63	2,846.56 178.79 1,386.63
S 7D1	Elmvale.....	1,434.38	.....	.....	1,434.38	717.19	Oct. 31, 1924	4,411.98	4,411.98
S 10D1	Stayner.....	17,269.74	.....	11,116.84	6,152.90	<i>e</i>		4,925.00 2,564.51	4,925.00 2,564.51
	Sunnidale (part) Flos (part)	.....	.....	.....	.....	.....	.....	7,489.51 <i>b</i>	7,489.51 <i>b</i>
								636.90 <i>e</i>	636.90 <i>e</i>

*a* Grant received in respect of rural power districts shown hereon and also in respect of lines in course of transfer from "rural lines" to "rural power districts."

*c* Grant received in respect of lines in course of transfer from "rural lines" to "rural power districts."

*d* Grant received in respect of a rural power district to be constructed.

*b* Application is being made for a further order-in-council.

*e* Summer resorts—No government grant applied for.

## RURAL POWER DISTRICTS—Continued

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

## GEORGIAN BAY SYSTEM—Continued

	Rural power district	Townships	Capital expenditures		Investment in lines in operation		Grant payable by the Province (50% of primary and secondary lines)	Orders-in-council authorizing grant		Grant paid by Province to Commission under such authorization
			Total	For work in course of construction	Primary lines	Secondary lines		Date	Amount authorized	
			\$ c.	\$ c.	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.
E 1D1	Flesherton...	Artemesia (part)...	2,641.51	.....	1,736.03	905.48	1,320.75	Nov. 29, 1921 Aug. 21, 1923 Oct. 31, 1924	357.42 491.11 481.52	357.42 491.11 481.52
E 1D2	Markdale....	Artemesia (part)...	1,325.86	.....	789.26	536.60	662.93	Mar. 2, 1923 Oct. 31, 1924	394.63 301.04	394.63 301.04
E 15D1	Tara.....	.....	.....	.....	.....	.....	.....	Oct. 31, 1924	267.68	267.68
E 23D1	Wroxeter....	.....	.....	.....	.....	.....	.....	Sept. 20, 1921 Oct. 31, 1924	3,787.00 1,167.00	3,787.00 1,167.00
E 24D1	Lucknow....	.....	.....	.....	.....	.....	.....	Oct. 31, 1924	d 4,954.00	d 4,954.00
E 24D2	Ripley.....	Kinloss (part)....	.....	.....	.....	.....	.....	Oct. 31, 1924	172.55	c 172.55
								Oct. 31, 1924	68.69	c 68.69

E 26D1	Walkerton Quarry	Brant (part).....	2,104.91	.....	1,767.67	337.24	1,052.46	Nov. 29, 1921 Aug. 21, 1923 Oct. 31, 1924	415.86 503.71 117.15	415.86 503.71 117.15
									1,036.72	1,036.72
W 3D1	Cannington No. 1	Brock (part)..... Eldon (part)	4,225.57	.....	2,323.65	1,901.92	2,112.78	Nov. 29, 1921 Mar. 2, 1923 Oct. 31, 1924	784.88 753.86 778.99	784.88 753.86 778.99
W 3D2	Cannington No. 2	Brock (part).....	3,920.34	.....	2,104.15	1,816.19	1,960.17	Nov. 29, 1921 Mar. 2, 1923 Oct. 31, 1924	209.30 1,021.01 1,984.43	209.30 1,021.01 1,984.43
W 6D1	Kirkfield....	.....	.....	.....	.....	.....	.....	July 2, 1924	3,210.50	3,210.50
W 7D2	Port Perry...	Reach (part).....	789.43	.....	202.67	586.76	394.72	Oct. 31, 1924	442.14	442.14
W 9D1	Mariposa....	Brock (part)..... Mariposa (part)	30,375.77	.....	22,236.78	8,138.99	15,187.89	Mar. 22, 1923 Oct. 30, 1924 Oct. 31, 1924	12,050.44 412.39 3,467.94	12,050.44 ..... 3,467.94
									15,930.77	15,518.38
	Total Georgian Bay System.....		87,467.40	.....	57,132.21	30,335.19	35,098.84	.....	46,723.51	46,311.12

## ST. LAWRENCE SYSTEM

L 2D1	Prescott.....	Augusta (part)..... Edwardsburg (part)	25,763.73	.....	20,145.63	5,618.10	12,881.86	Sept. 20, 1921 Mar. 13, 1923 Oct. 31, 1924	9,467.00 93.87 3,374.21	9,467.00 93.87 3,374.21
L 3D1	Brockville...	Elizabethtown (pt.) Augusta (part)	19,188.25	.....	17,022.69	2,165.56	9,594.13	June 23, 1922 Mar. 2, 1923 Jan. 22, 1924 Oct. 31, 1924	1,188.66 6,384.96 209.53 1,850.42	1,188.66 6,384.96 209.53 1,850.42
									12,935.08	12,935.08
									9,633.57	9,633.57

<sup>d</sup> Grant received in respect of a rural power district to be constructed.

<sup>e</sup> Grant received in respect of lines in course of transfer from "rural lines" to "rural power districts."



## RURAL POWER DISTRICTS—Continued

Statement showing the Total Capital Expenditures to October 31, 1924, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Capital Expenditures on Portions Thereof in Course of Construction; the Investment in Lines in Operation, divided as between primary and secondary; the Amounts of the Grants (fifty per cent of both primary and secondary lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants Stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid Over by the Province to the Commission under such Authorizations up to October 31, 1924

## ST. LAWRENCE SYSTEM—Continued

	Rural power district	Townships	Capital expenditures		Investment in lines in operation		Grant payable by the Province (50% of primary and secondary lines)	Orders-in-council authorizing grant		Grant paid by Province to Commission under such authorization
			Total	For work in course of construction	Primary lines	Secondary lines		Date	Amount authorized	
L 5D1	Chesterville..	Winchester (part)..	\$ c. 4,155.50	\$ c. .....	\$ c. 3,511.25	\$ c. 644.25	\$ c. 2,077.75	June 23, 1922 Mar. 2, 1923 Mar. 13, 1923 Aug. 21, 1923 Oct. 31, 1924	\$ c. 1,689.21 160.60 55.00 1,023.15 Cr. 760.41	\$ c. 1,689.21 160.60 55.00 1,023.15 Cr. 760.41
L 7D1	Williamsburg	Williamsburg (part)	486.34	.....	352.56	133.78	243.17	Jan. 22, 1924 Oct. 31, 1924	157.49 100.68	157.49 100.68
L 13D1	Martintown..	Charlottenburg (pt.)	6,651.49	.....	3,379.06	3,272.43	3,325.74	June 23, 1922 Mar. 13, 1923 Mar. 13, 1923 May 3, 1923 Oct. 31, 1924	168.91 1,197.03 136.62 349.20 1,524.51	168.91 1,197.03 136.62 349.20 1,524.51
L 14D1	Apple Hill...	Kenyon (part).....	127.17	.....	.....	127.17	63.59	Oct. 31, 1924	76.08	76.08
	Totals—St. Lawrence System....		56,372.48	.....	44,411.19	11,961.29	28,186.24	.....	28,446.72	28,446.72

## OTTAWA SYSTEM

T 1D1	Nepean . . . . .	Nepean (all) . . . . .	46,981.63	7,784.40	30,195.14	9,002.09	19,598.62	Sept. 20, 1921	7,573.00	7,573.00
		Gloucester (part)						Nov. 29, 1921	3,588.42	3,588.42
		Gower North (part)						June 23, 1922	4,136.58	4,136.58
		Osgoode (part)						Dec. 27, 1922	147.55	147.55
								Mar. 13, 1923	168.81	168.81
								July 2, 1924	6,156.66	6,156.66
								Oct. 31, 1924	4,354.74	4,354.74
	Totals—Ottawa System . . . . .		46,981.63	7,784.40	30,195.14	9,002.09	19,598.62		26,125.76	26,125.76

## CENTRAL ONTARIO SYSTEM

C 11D1	Campbellford	Seymour (part) . . . . .	13,931.33		10,761.13	3,170.20	6,965.67	July 2, 1924	6,806.33	6,806.33
								July 2, 1924	3,311.50	3,311.50
								Oct. 31, 1924	1.96	1.96
C 18D1	Lakefield . . . . .							July 2, 1924	10,119.79	10,119.79
C 23D1	Bowmanville	Darlington (part) . . . . .	720.18		521.02	199.16	360.09	Nov. 16, 1923	275.70	275.70
								Oct. 31, 1924	107.84	107.84
C 24D1	Oshawa . . . . .	Whitby East (all) . . . . .	52,531.09		29,990.77	22,540.32	26,265.54	Mar. 2, 1923	15,904.78	15,904.78
		Whitby West (all)						Oct. 31, 1924	10,366.09	10,366.09
		Pickering (all)								
C 37D1	Trenton . . . . .	Murray (part) . . . . .	705.84		597.58	108.26	352.92	Nov. 29, 1923	26,270.87	26,270.87
								Oct. 31, 1924	296.54	296.54
									67.26	67.26
C 44D1	Kingston . . . . .	Kingston (part) . . . . .	27,269.50		20,052.20	7,217.30	13,634.75	Sept. 27, 1922	363.80	363.80
								Apr. 23, 1923	2,026.45	2,026.45
								Nov. 29, 1923	3,860.26	3,860.26
								Oct. 30, 1924	1,330.68	1,330.68
								Oct. 31, 1924	156.00	156.00
									6,235.44	6,235.44
	Totals—Central Ontario System . . . . .		95,157.94		61,922.70	33,235.24	47,578.97		13,608.83	13,608.83
									51,083.33	51,083.33
										50,927.33

<sup>d</sup> Grant received in respect of a rural power district to be constructed.

<sup>b</sup> Application being made for a further order-in-council.

## SECTION X

### MUNICIPAL ACCOUNTS

The Municipal Accounts section of this report presents the results of the operation of the various Hydro systems from a municipal standpoint collectively and individually. Statements prepared from figures extracted from the books of all Hydro municipalities are submitted herein to show how each has operated during the past year; also the financial status at the present time; as well as much useful statistical information, all so arranged as to permit of comparisons being made between various systems and between different municipalities in each system.

The books of account in all municipalities which have contracted with the Hydro-Electric Power Commission of Ontario for a supply of power are kept in accordance with the provisions set forth in the publication "Uniform Accounting for Municipal Electric Utilities," issued by the Commission. The Commission, by a system of periodical inspections and reports, keeps in close touch with the operating conditions of each local system.

During the year 1924, the uniform accounting system was installed in the following municipalities as each became ready for the service: Blyth, Brussels, Clifford, Courtright, Erieau, Essex, Harrow, Humberstone, Jarvis, Kingsville, Leamington, Meaford, North York Township, Sandwich, Trafalgar Township, Wheatley.

Periodical inspections were made of the books of all Hydro municipalities, and local officials have been assisted in the improvement of their office routine with a view to standardizing as far as possible, the methods employed. In the majority of the smaller municipalities, much of the bookkeeping is performed by representatives of the Municipal Audit department, in order to insure the employment of proper classifications of revenue and expenditures, to save time in preparation of reports, to insure compliance with all the requirements of the standard accounting system, and to make certain that the accounts represent as truly as possible the actual operating results for the year.

The first financial statement in this preface presents consolidated operating reports for each year since Hydro was inaugurated and combines the results of all the systems. Study of this report will show that the revenue has been increasing to a most satisfactory degree. The annual surpluses, after providing all possible cost of operation, including an adequate depreciation charge, have increased, until in 1924, the combined annual surpluses amounted to \$1,163,-910.10, an increase of over six per cent over the best previous year, 1923.

The second statement presents consolidated balance sheets for each year since 1912, and also shows clearly the march of progress. It is worth noting that the total plant value has increased from \$10,081,469.16 in 1913 to \$53,839,097.93 in 1924, and the total assets from \$11,907,826.86 to \$72,753,596.31. The liabilities have not increased in the same proportion as the assets, rising from \$10,468,-351.79 to \$43,065,051.56. The reason for this is that much of the cost of the increasing plant value has been financed out of surplus and reserve accounts without increasing the liabilities of the various systems. By this procedure the funds of the systems are used to best advantage. Examination of the results will also show that there is a steady decline in the percentage of net debt to total assets; being from 88.0 per cent in 1913 to 61.4 per cent in 1924. The equity



in the Hydro-Electric Power Commission system automatically acquired through the inclusion of sinking fund as part of the cost of power is not taken into account in arriving at these percentages.

The seven statements, "A" to "G" following the two consolidated reports show the results of operations and the financial status of each municipal system, and also give information respecting revenue, number of consumers and consumption; cost of power to municipalities; power and lighting rates charged to consumers, etc. Some of the figures are comparative for all the years of operation. In the statements "A," "B," and "C," the figures are arranged in groups under each system and alphabetically for the municipalities in each system; in the statements "D" to "G" all "Hydro" municipalities are arranged alphabetically.

**Statement "A"** shows balance sheets for each municipality with the plant value sub-divided into the general natural sub-divisions specified in the standard accounting system, and there are also shown the other items which make up the total assets. It is to be noted that among the assets there are items entitled "Equity in Hydro system." These items represent the amount of accumulated Sinking Fund paid by the various municipalities through the medium of "Power Cost" toward the ultimate retirement of the Hydro-Electric Power Commission's construction debt. The total accumulation to the end of 1924 is shown on the Consolidated balance sheet to be \$5,420,567.58.

In each case the balance sheet is complete and final, including either in "Accounts receivable," or "Accounts payable" the adjustments with this Commission of the differences between the estimated and the actual costs of power.

The actual liabilities of each local system are set out under their general sub-divisions,—debenture balance, accounts payable, bank overdraft, and other liabilities, this last account including local debentures issued by municipalities to finance ornamental street-lighting systems as local improvements.

The reserves for depreciation, and the acquired equity in the Hydro-Electric Power Commission system, are also listed separately and totalled; and under the heading "Surplus" is included not only the free operating profit but the accumulation of sinking fund applicable to debenture debt and also the amount of debentures already retired out of revenue, which properly belong under this heading.

The "Depreciation reserve" now amounts to 23.4 per cent of the total depreciable plant, while the "Depreciation reserve" and "Surplus" combined have already reached the sum of \$24,267,977.17, approximating forty-five per cent of the total plant cost.

**Statement "B"** is a consolidated condensed operating report, showing the essential figures of each municipal system's operation in such a manner as to facilitate a ready comparison of the various results. The population served by each system, as well as the number of customers and the load taken in December, 1924, are also shown in order to give an idea of the relative sizes of the respective utilities.

Of the 241 municipalities included in this report, a total of nine failed to meet their actual cost of operation without regard to depreciation. A total of sixteen, including the above, failed to provide full theoretical depreciation in addition to all operating and maintenance expenses, but their relative unimportance is clearly disclosed by an examination of the reports. These sixteen municipalities indicate a total theoretical loss of \$18,552.30, while the remaining 225 municipali-

ties piled up a surplus of \$1,182,462.40, thus leaving a net surplus for all Hydro municipalities of \$1,163,910.10 during the year.

**Statement "C"** shows detailed operating reports for each utility. The cost of power includes the adjustment made by this Commission and hence covers the actual cost and not the cost at the interim billed rates.

**Statement "D,"** in many respects, is the most interesting report in the series. It gives more information respecting the actual results of operation from the viewpoint of the consumer than is obtainable from the published reports of any other system of electric utilities regardless of where operated or whether publicly or privately owned.

This statement "D" shows the revenue, kilowatt-hour consumption, number of consumers, average monthly consumption, average monthly bill and the net average cost per kilowatt-hour both for domestic and for commercial service in each municipality since "Hydro" was first installed. For comparative purposes the rates in effect prior to the installation of "Hydro" are also indicated. The average flat-rate cost of horsepower as billed to power customers since 1917 is also shown.

In many municipalities the average monthly bill has increased during the past few years. This is due to the steady increase in the use of better lighting, and the general installation of ranges, heaters and miscellaneous appliances. It is estimated that over 44,000 electric ranges are now in use and the number is increasing rapidly. In practically all municipalities the cost per kilowatt-hour has been steadily declining, due to the constantly increasing use of electric appliances, the adoption of a uniform follow-up rate of two cents per kilowatt-hour for domestic and farm service throughout the province, and the consequently large number of kilowatt-hours consumed at the lower rate.

**Statement "E"** shows the installation of street lights in each municipality together with the rates set by this Commission, the revenue for 1924 and the cost per capita in each municipality.

**Statement "F"** and **Statement "G"** present the local rates in use by each utility, and also those charged by the Commission on the interim power bills.

A study of the various reports will clearly show that Hydro business in general, and that of Hydro municipalities in particular, are in a most satisfactory financial condition. There is no criticism of the working out of the economic policies of the Hydro-Electric Power Commission of Ontario which cannot intelligently and satisfactorily be met with direct appeal to the official figures in the balance sheets and operating reports herein presented.

#### MUNICIPALITIES OUT OF DEBT

The automatic reduction in the debenture debt, due to the annual principal or sinking fund payments bring provided for out of revenue, and the remarkable accumulation of assets reflect the satisfactory financial condition of the Hydro utilities generally. The tabular statement on the opposite page shows in condensed form the relation of assets to liabilities in sixty-three municipalities. In the first thirty-nine municipalities the quick assets such as cash, bonds, accounts receivable and inventories exceed in value the total liabilities, including the debenture balance, and they may fairly be considered as being out of debt. In the remaining twenty-four municipalities, the excess of liabilities over the quick assets is relatively so small that a number of them will be transferred to the "out-of-debt" list when the books are closed at the end of 1925.



Municipality	Total assets	Total liabilities	Total quick assets	Net balance liabilities over quick assets	Excess of quick assets over all liabilities
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Acton.....	42,256.41	4,982.28	6,596.68	.....	1,614.40
Ailsa Craig.....	16,241.34	3,319.12	4,254.48	.....	935.36
Beachville.....	27,515.31	3,952.73	12,786.72	.....	8,833.99
Bothwell.....	20,407.29	5,330.24	10,327.98	.....	4,997.74
Brockville.....	314,584.32	83,975.75	94,300.45	.....	10,324.70
Chesterville.....	21,709.65	5,498.38	8,054.87	.....	2,556.49
Coldwater.....	20,231.69	5,871.56	8,026.30	.....	2,154.74
Collingwood.....	156,920.52	22,198.81	49,055.92	.....	26,857.11
Creemore.....	21,487.84	4,214.29	9,563.92	.....	5,349.63
Dorchester.....	14,912.66	4,680.14	4,926.42	.....	246.28
Dundalk.....	16,816.30	3,707.30	5,575.72	.....	1,868.42
Elmvale.....	19,968.95	5,451.10	7,189.46	.....	1,738.36
Exeter.....	41,350.45	7,993.87	10,959.83	.....	2,965.96
Georgetown.....	72,926.95	17,195.85	24,172.07	.....	6,976.22
Lucan.....	26,379.76	8,290.86	8,435.60	.....	144.74
Mitchell.....	70,670.27	5,386.03	10,062.09	.....	4,676.06
Mt. Brydges.....	10,868.91	3,469.76	4,435.04	.....	965.28
New Toronto.....	109,077.39	14,381.41	28,462.28	.....	14,080.87
Norwich.....	45,887.68	10,244.18	17,020.17	.....	6,775.99
Otterville.....	12,538.71	3,094.26	4,925.07	.....	1,830.81
Palmerston.....	67,791.59	11,920.56	14,991.52	.....	3,070.96
Pictou.....	99,035.73	4,527.29	43,923.64	.....	39,396.35
Port Arthur.....	1,362,847.13	393,093.85	393,546.67	.....	452.82
Prescott.....	86,712.67	13,010.47	17,988.30	.....	4,977.83
Ridgetown.....	58,694.71	13,037.12	20,463.31	.....	7,426.19
Rockwood.....	11,152.23	nil	1,246.55	.....	1,246.55
Rodney.....	20,995.64	7,359.28	8,251.13	.....	891.85
St. George.....	16,407.92	5,034.21	9,238.61	.....	4,204.40
Tavistock.....	26,652.27	6,448.33	8,543.26	.....	2,094.93
Thamesford.....	15,536.42	3,652.66	5,670.68	.....	2,018.02
Thamesville.....	28,267.75	8,391.21	11,064.34	.....	2,673.13
Thorold.....	79,578.40	7,426.67	9,254.02	.....	1,827.35
Tilbury.....	38,526.47	12,419.72	14,058.13	.....	1,638.41
Tillsonburg.....	102,122.52	25,742.59	29,438.51	.....	3,695.92
Waterdown.....	28,162.34	3,561.61	10,503.11	.....	6,941.50
Waterford.....	28,375.84	nil	7,165.45	.....	7,165.45
West Lorne.....	24,414.78	8,080.41	9,532.28	.....	1,451.87
Winchester.....	28,791.03	10,359.45	14,088.02	.....	3,728.57
Woodbridge.....	25,415.36	8,030.38	8,997.83	.....	967.45
Aylmer.....	64,170.44	26,224.70	18,657.69	7,567.01	.....
Ayr.....	22,664.02	5,988.68	5,689.36	299.32	.....
Burgessville.....	5,993.13	2,405.73	1,876.82	528.91	.....
Delaware.....	6,531.64	3,242.60	2,912.34	330.26	.....
Dresden.....	36,254.40	9,356.70	8,735.32	621.38	.....
Durham.....	47,622.04	20,082.92	17,609.45	2,473.47	.....
Dutton.....	20,115.20	7,213.90	6,310.99	902.91	.....
Granton.....	8,265.61	3,124.62	2,731.76	392.86	.....
Hagersville.....	31,832.18	7,897.42	5,259.70	2,637.72	.....
Highgate.....	11,282.80	4,281.36	3,716.75	564.61	.....
Huntsville.....	41,883.25	15,493.92	12,441.31	3,052.61	.....
New Hamburg.....	47,235.65	13,249.47	10,602.51	2,646.96	.....
Owen Sound.....	268,680.41	30,987.48	28,967.92	2,019.56	.....
Penetanguishene.....	99,076.43	30,109.61	25,021.28	5,088.33	.....
St. Thomas.....	452,718.71	98,696.58	96,442.01	2,254.57	.....
Seaforth.....	74,540.88	18,153.65	16,325.83	1,827.82	.....
Stayner.....	30,715.21	9,585.22	8,964.04	621.18	.....
Victoria Harbour.....	14,269.10	4,611.70	3,310.58	1,301.12	.....
Wallaceburg.....	164,207.63	67,086.45	35,898.37	11,188.08	.....
Watford.....	26,099.94	6,771.77	5,882.09	889.68	.....
Waubushene.....	8,337.26	2,653.32	2,464.26	189.06	.....
Williamsburg.....	4,398.93	1,718.56	1,564.12	154.44	.....
Woodville.....	11,045.76	4,716.96	3,856.59	860.37	.....
Zurich.....	14,395.73	5,493.51	4,229.12	1,264.39	.....



## CONSOLIDATED

YEAR.....	1912	1913	1914
Number of municipalities included.....	28	45	69
<b>EARNINGS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Domestic light.....		572,154.38	789,130.81
Commercial light.....		525,438.16	673,803.92
Commercial power.....		905,378.17	1,214,829.31
Municipal power.....			
Street light.....		560,925.56	698,409.71
Rural.....			
Miscellaneous.....		53,543.24	57,482.41
Total earnings.....	1,617,674.00	2,617,439.51	3,433,656.16
<b>EXPENSES</b>			
Power purchased.....		789,632.87	1,045,752.65
Substation operation.....		78,394.81	97,658.90
Substation maintenance.....		18,698.46	31,790.99
Distribution system operation and maintenance.....		104,114.51	130,998.65
Line transformer maintenance.....		8,547.61	11,764.32
Meter maintenance.....		5,222.19	9,536.07
Consumers' premises expenses.....		53,108.38	65,192.23
Street lighting operation and maintenance.....		84,903.76	113,047.80
Promotion of business.....		72,303.51	86,683.02
Billing and collecting.....		77,351.76	103,560.71
General office, salaries and expenses.....		154,932.69	230,899.75
Undistributed expense.....		65,423.64	89,350.91
Interest.....		528,549.21	662,092.34
Sinking fund and principal payments on debentures.....		*	*
Total expenses.....	1,377,168.00	2,041,183.40	2,678,328.34
Surplus.....	240,506.00	576,256.11	755,327.82
Depreciation charge.....	124,992.47	262,675.24	357,883.31
Surplus less depreciation.....	115,513.53	313,580.87	397,444.51

\*Debenture payments included in "Interest."

\*Debenture payments included in "Interest."

## CONSOLIDATED OPERATING REPORT—Continued

YEAR.....	1921	1922	1923	1924
Number of municipalities included....	205	214	224	241
<b>EARNINGS</b>				
	\$ c.	\$ c.	\$ c.	\$ c.
Domestic light.....	3,149,080.03	3,786,608.23	5,166,452.24	5,993,231.07
Commercial light.....	1,851,501.76	2,158,306.34	3,260,772.50	3,566,227.22
Commercial power.....	3,895,437.46	4,383,912.97	5,927,666.37	6,222,865.88
Municipal power.....	654,531.01	973,263.38	1,161,598.60	1,352,966.47
Street light.....	1,060,357.77	1,160,446.81	1,269,604.48	1,356,668.97
Rural.....	145,566.57	105,877.09	116,639.06	75,100.24
Miscellaneous.....	225,467.70	187,689.39	316,311.21	231,663.58
Total earnings.....	10,981,942.30	12,756,104.21	17,219,044.46	18,798,723.43
<b>EXPENSES</b>				
Power purchased.....	4,876,650.31	6,636,853.37	8,699,026.67	9,669,789.40
Substation operation.....	314,838.35	315,443.70	474,442.13	430,056.09
Substation maintenance.....	104,798.01	100,763.67	133,815.53	202,050.04
Distribution system operation and maintenance.....	487,918.33	519,252.16	636,477.41	648,700.62
Line transformer maintenance.....	65,088.46	52,932.26	75,920.10	82,936.50
Meter maintenance.....	116,722.97	107,806.88	139,104.81	141,231.23
Consumers' premises expenses.....	134,854.92	143,388.88	218,682.02	237,316.20
Street lighting operation and maintenance.....	297,481.52	297,363.86	299,579.08	269,973.30
Promotion of business.....	101,804.46	129,932.63	184,371.00	202,060.74
Billing and collecting.....	321,685.71	338,153.50	444,306.92	490,273.30
General office, salaries and expenses.....	656,268.11	605,852.50	937,463.47	889,907.66
Undistributed expense.....	308,874.42	385,895.03	359,206.91	494,078.50
Interest.....	998,611.47	1,074,657.44	1,615,205.16	1,779,991.26
Sinking fund and principal payments on debentures.....	532,183.96	635,469.90	990,907.14	1,122,798.87
Total expenses.....	9,317,781.00	11,343,765.78	15,208,508.35	16,661,163.71
Surplus.....	1,664,161.30	1,412,338.43	2,010,536.11	2,137,559.72
Depreciation charge.....	1,044,434.85	715,814.24	916,782.75	973,649.62
Surplus less depreciation.....	619,726.45	696,524.19	1,093,753.36	1,163,910.10



## CONSOLIDATED BALANCE SHEET

YEAR.....	1913	1914	1915
Number of municipalities included.....	45	69	99
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....	626,707.34	791,732.20	873,838.18
Substation equipment.....	1,090,875.69	1,476,087.84	1,582,062.56
Distribution system—overhead.....	2,690,834.74	3,422,763.93	4,234,626.05
Distribution system—underground.....	644,514.24	807,153.53	928,420.77
Line transformers.....	615,546.20	787,613.52	981,754.70
Meters.....	840,606.64	1,172,475.11	1,418,165.08
Street lighting equipment—regular.....	900,614.80	1,071,255.37	1,309,628.49
Street lighting equipment—ornamental.....	62,765.34	270,386.55	197,644.82
Miscellaneous construction expenses.....	866,551.89	2,062,035.90	1,701,182.66
Steam or hydraulic plant.....	1,401,175.28	420,108.33	461,651.60
Old plant.....	341,277.00	619,513.12	1,184,372.86
Total plant.....	10,081,469.16	12,901,125.40	14,873,347.77
Bank and cash balance.....	450,887.97	422,350.12	284,653.96
Securities and investments.....			
Accounts receivable.....	344,487.95	561,873.08	602,920.69
Inventories.....	540,274.58	615,226.76	726,556.76
Sinking fund on local debentures.....	431,747.27	625,217.03	868,983.78
Equity in Hydro system.....			
Other assets.....	58,959.93	123,410.97	326,801.11
Total assets.....	11,907,826.86	15,249,203.36	17,683,264.07
<b>LIABILITIES</b>			
Debenture balance.....	8,711,308.37	10,678,078.36	11,831,811.03
Accounts payable.....	1,553,711.45	1,682,150.29	2,040,038.01
Bank overdraft.....	160,919.16	228,622.50	292,106.44
Other liabilities.....	42,412.81	113,838.66	37,388.31
Total liabilities.....	10,468,351.79	12,702,689.81	14,201,343.79
<b>RESERVES</b>			
For depreciation.....	478,145.88	850,618.07	1,337,739.73
For equity in H.E.P.C. system.....			
Total reserves.....	478,145.88	850,618.07	1,337,739.73
<b>SURPLUS</b>			
Debentures paid.....	202,751.26	320,129.10	394,466.22
Local sinking fund.....	431,747.27	625,217.03	868,983.78
Additional operating surplus.....	326,830.66	750,549.35	880,730.55
Total surplus.....	961,329.19	1,695,895.48	2,144,180.55
Total liabilities, reserves and surplus.....	11,907,826.86	15,249,203.36	17,683,264.07
Percentage of net debt to total assets.....	88	83.3	80.3

## CONSOLIDATED

YEAR.....	1916	1917	1918
Number of municipalities included.....	128	143	166
<b>ASSETS</b>			
	\$ c.	\$ c.	\$ c.
Lands and buildings.....	1,335,936.33	1,546,241.41	1,859,888.69
Substation equipment.....	1,934,626.12	2,471,293.82	2,820,448.70
Distribution system—overhead.....	4,832,353.27	6,080,073.42	6,627,237.39
Distribution system—underground.....	1,095,709.62	1,157,059.90	1,216,288.59
Line transformers.....	1,179,132.07	1,483,839.44	1,772,691.35
Meters.....	1,711,299.49	1,999,095.48	2,238,143.70
Street lighting equipment—regular.....	1,251,057.13	1,237,734.69	1,200,625.65
Street lighting equipment—ornamental.....	306,388.95	361,975.74	531,502.61
Miscellaneous construction expenses.....	2,059,263.42	2,184,015.84	2,395,096.50
Steam or hydraulic plant.....	864,500.01	896,753.20	214,575.75
Old plant.....	759,748.66	649,852.51	1,476,413.00
Total plant.....	17,330,015.07	20,077,935.45	22,352,951.93
Bank and cash balance.....	1,061,029.90	340,026.50	391,194.91
Securities and investments.....			
Accounts receivable.....	695,152.23	1,285,097.33	1,124,018.44
Inventories.....	764,504.59	1,261,398.36	972,996.96
Sinking fund on local debentures.....	1,166,017.73	1,337,578.96	1,663,298.05
Equity in Hydro system.....			
Other assets.....	342,215.87	125,240.05	444,787.63
Total assets.....	21,358,935.39	24,427,276.65	26,949,247.92
<b>LIABILITIES</b>			
Debenture balance.....	15,058,641.57	15,593,773.61	17,209,217.70
Accounts payable.....	969,187.75	1,537,669.11	1,007,727.79
Bank overdraft.....	178,413.26	886,177.94	576,816.49
Other liabilities.....	491,874.90	429,104.20	350,013.21
Total liabilities.....	16,698,117.48	18,446,724.86	19,143,775.19
<b>RESERVES</b>			
For depreciation.....	1,843,804.68	2,463,723.83	3,133,550.17
For equity in H.E.P.C. system.....			
Total reserves.....	1,843,804.68	2,463,723.83	3,133,550.17
<b>SURPLUS</b>			
Debentures paid.....	549,778.59	694,797.90	920,076.56
Local sinking fund.....	1,165,785.94	1,340,615.38	1,662,602.69
Additional operating surplus.....	1,101,448.70	1,481,414.68	2,089,243.31
Total surplus.....	2,817,013.23	3,516,827.96	4,671,922.56
Total liabilities, reserves and surplus.....	21,358,935.39	24,427,276.65	26,949,247.92
Percentage of net debt to total assets.....	78.4	75.5	71.0

## BALANCE SHEET—Continued

1919	1920	1921	1922	1923	1924
191	195	215	226	235	248
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,995,545.83	2,175,568.24	3,230,985.63	3,334,522.68	4,488,054.93	4,561,648.92
2,915,125.56	3,231,050.80	5,403,689.90	5,046,857.98	6,015,919.75	6,800,238.00
7,445,820.31	8,579,881.49	8,397,361.48	11,165,330.24	13,135,581.76	14,182,190.33
1,206,296.88	1,313,369.29	1,401,135.97	1,598,053.02	1,959,120.41	2,873,446.13
2,073,113.45	2,560,581.59	3,077,649.83	3,618,684.73	4,211,655.89	4,456,669.02
2,587,566.32	3,053,135.20	3,552,076.79	4,033,689.52	4,548,933.73	5,149,629.71
1,206,638.71	1,269,006.98	1,335,997.13	1,419,016.05	1,061,473.85	1,134,491.77
546,497.68	557,678.13	610,586.70	666,084.50	708,431.22	728,298.08
2,430,101.08	2,697,636.12	3,030,134.16	3,261,495.74	3,681,274.88	4,168,262.21
986,200.57	757,194.47	704,848.46	565,158.54	566,619.86	4,196,803.45
805,959.89	864,298.39	912,388.55	7,997,947.87	8,051,496.28	5,587,420.31
24,298,866.28	27,059,400.70	31,656,854.60	42,706,840.87	48,428,562.56	53,839,097.93
462,437.23	943,858.12	900,842.34	1,164,336.24	1,276,140.06	1,748,912.34
627,076.53	341,855.88	556,608.53	443,938.18	1,153,424.47	1,329,622.58
1,921,166.69	2,022,538.88	2,148,287.05	3,874,317.14	3,198,769.34	3,898,751.89
1,032,569.75	1,400,671.89	1,504,596.28	1,738,795.96	1,819,711.62	1,745,628.16
1,925,455.77	2,244,004.34	2,541,718.35	3,416,231.45	3,896,261.28	4,520,723.06
369,071.89	577,584.06	795,570.51	1,543,434.12	2,929,603.94	5,420,567.58
86,216.05	25,447.07	78,929.84	238,940.13	190,071.63	250,292.77
30,722,860.19	34,615,360.94	40,111,979.23	55,126,834.09	62,892,544.90	72,753,596.31
18,133,462.44	19,268,072.04	21,619,220.99	30,454,186.12	33,056,501.29	38,005,162.50
1,420,926.66	1,840,137.54	1,887,567.93	3,699,292.52	3,708,781.76	3,117,224.08
403,235.57	514,671.99	989,099.98	456,706.69	680,714.59	162,100.71
670,271.90	642,293.65	938,368.84	586,203.02	1,517,828.47	1,780,564.27
20,627,896.57	22,265,175.22	25,434,257.74	35,196,388.35	38,963,826.11	43,065,051.56
3,750,162.28	4,788,645.03	5,491,858.93	6,512,813.92	7,328,858.69	8,097,834.68
373,871.89	577,584.06	800,249.05	1,543,434.12	2,929,603.94	5,420,567.58
4,124,034.17	5,366,299.09	6,292,107.98	8,056,248.04	10,258,462.63	13,518,402.26
1,328,657.68	1,440,157.52	1,860,079.53	3,104,591.15	2,852,038.38	3,530,610.35
1,754,020.37	2,246,474.47	2,541,718.35	3,416,231.45	3,896,261.28	4,520,723.06
2,888,251.40	3,297,325.64	3,983,815.63	5,353,375.10	6,921,956.50	8,118,809.08
5,970,929.45	6,983,956.63	8,385,613.51	11,874,197.70	13,670,256.16	16,170,142.49
30,722,860.19	34,615,360.94	40,111,979.23	55,126,834.09	62,892,544.90	72,753,596.31
67.9	65.4	64.7	63.3	62.6	61.4



# STATEMENT

## Balance Sheets of Electrical Departments of

### NIAGARA SYSTEM

Municipality.....	Acton	Agincourt P.V.	Ailsa Craig 514	Alvinston	Ancaster Twp.
Population.....	1,649			657	
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	1,545.45			133.56	
Substation equipment.....	1,650.33				
Distribution system, overhead....	12,767.72	5,597.26	7,085.46	13,701.84	16,780.04
Distribution system, underground					
Line transformers.....	7,342.85	1,535.28	2,221.08	3,449.78	5,009.63
Meters.....	6,099.45	1,264.87	1,807.59	2,970.22	6,756.41
Street lighting equipment, regular	1,133.39	433.93	380.37	1,090.62	806.23
Street lighting equip., ornamental					
Misc. construction expense.....	1,639.04		492.36	918.68	1,379.46
Steam or hydraulic plant.....					
Old plant.....	3,481.50			773.85	
Total plant.....	35,659.73	8,831.34	11,986.86	23,038.55	30,731.77
Bank and cash balance.....	1,412.30	2,673.81	1,337.55	4,121.69	4,537.08
Securities and investments.....	1,000.00		2,000.00		
Accounts receivable.....	2,192.10	436.81	916.93	1,869.14	679.77
Inventories.....	1,992.28			20.58	
Sinking fund on local debentures..					
Equity in Hydro systems.....	8,282.31	134.12	3,660.49	555.68	1,057.85
Other assets.....					1,245.38
Total assets.....	50,538.72	12,076.08	19,901.83	29,605.64	38,251.85
Deficit.....					
Total.....	50,538.72	12,076.08	19,901.83	29,605.64	38,251.85
LIABILITIES					
Debenture balance.....	4,828.04	7,449.56	3,319.12	21,460.86	15,787.84
Accounts payable.....		368.56			481.79
Bank overdraft.....					
Other liabilities.....	154.24				1,245.38
Total liabilities.....	4,982.28	7,818.12	3,319.12	21,460.86	17,515.01
RESERVES					
For equity in H.E.P.C. systems..	8,282.31	134.12	3,660.49	555.68	1,057.85
For depreciation.....	7,172.64	241.81	2,856.33	861.00	4,280.63
Total reserves.....	15,454.95	375.93	6,516.82	1,416.68	5,338.48
SURPLUS					
Debentures paid.....	9,671.96	623.09	915.85	2,068.38	1,212.16
Local sinking fund.....					
Additional operating surplus.....	20,429.53	3,258.94	9,150.04	4,659.72	14,186.20
Total surplus.....	30,101.49	3,882.03	10,065.89	6,728.10	15,398.36
Total liabilities, reserves & surplus..	50,538.72	12,076.08	19,901.83	29,605.64	38,251.85
Percentage of net debt to total assets	11.5	65.4	20.4	73.8	47.1

## “A”

## Hydro Municipalities as at December 31, 1924

Aylmer 2,222	Ayr 811	Baden P.V.	Barton Twp.	Beachville P.V.	Belle River 560	Blenheim 1,553	Blyth 646
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	125.00	660.64	.....	176.13	.....	.....	.....
16,513.12	7,417.60	5,751.81	58,230.24	10,017.68	9,319.68	909.64 15,701.42	9,407.92
4,942.85	1,855.72	3,089.81	8,275.43	1,372.84	1,948.60	6,176.23	1,516.89
7,045.29	2,393.55	2,006.43	15,314.89	2,259.41	1,704.13	6,639.97	485.26
1,240.46	370.47	394.50	2,381.96	369.17	631.92	1,286.68	1,275.39
1,051.86	809.79	.....	4,060.34	533.36	725.49	1,482.97 702.17	232.06
14,719.17	4,002.53	.....	.....	.....	.....	.....	2,332.68
45,512.75	16,974.66	11,903.19	88,262.86	14,728.59	14,329.82	32,899.08	15,250.20
3,395.37	2,137.58	1,490.41	.....	2,566.07	1,232.39	.....	4,477.99
12,000.00	1,000.00	.....	.....	8,000.00	.....	.....	.....
3,500.71	2,443.83	805.96	432.47	2,164.01	2,976.55	3,932.68	1,689.24
.....	107.95	31.25	62.19	56.64	.....	.....	.....
3,468.91	2,421.93	7,046.89	1,124.80	8,769.51	333.78	5,620.13	56.65
.....	.....	.....	450.00	.....	462.47	.....	.....
67,877.74	25,085.95	21,277.70	90,332.32	36,284.82	19,335.01	42,451.89	21,474.08
.....	.....	.....	249.00	.....	.....	.....	.....
67,877.74	25,085.95	21,277.70	90,581.32	36,284.82	19,335.01	42,451.89	21,474.08
29,598.61	5,988.68	3,666.96	44,135.07	3,952.73	8,268.93	11,965.07	20,332.68
95.00	.....	.....	30,235.84	.....	382.00	.....	112.56
.....	.....	.....	1,895.73	.....	.....	485.94	.....
.....	.....	.....	5.00	.....	.....	1,482.97	.....
29,693.61	5,988.68	3,666.96	76,271.64	3,952.73	8,650.93	13,933.98	20,445.24
3,468.91	2,421.93	7,046.89	1,124.80	8,769.51	333.78	5,620.13	56.65
5,008.38	3,824.47	325.00	3,897.29	4,825.39	545.00	6,013.70	.....
8,477.29	6,246.40	7,371.89	5,022.09	13,594.90	878.78	11,633.83	56.65
9,103.31	6,514.70	1,333.04	9,287.59	1,400.27	231.07	2,034.93	.....
20,603.53	6,336.17	8,905.81	.....	17,336.92	9,574.23	14,849.15	972.19
29,706.84	12,850.87	10,238.85	9,287.59	18,737.19	9,805.30	16,884.08	972.19
67,877.74	25,085.95	21,277.70	90,581.32	36,284.82	19,335.01	42,451.89	21,474.08
46.1	26.4	25.7	85.5	14.4	45.5	37.8	95.4

# STATEMENT

## Balance Sheets of Electrical Departments of

### NIAGARA SYSTEM—Continued

Municipality.....	Bolton	Bothwell	Brampton	Brantford	Brantford Twp.
Population.....	664	647	4,778	30,109	
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....			3,854.06	37,211.73	
Substation equipment.....			19,499.60	114,709.03	1,192.71
Distribution system, overhead....	8,652.55	4,209.20	42,963.06	189,922.33	37,962.24
Distribution system, underground					
Line transformers.....	3,407.44	1,415.34	15,581.17	86,728.40	11,235.37
Meters.....	2,288.34	2,436.42	17,644.65	87,730.61	8,151.24
Street lighting equipment, regular	561.14	459.44	2,302.74	22,701.06	2,434.72
Street lighting equip., ornamental				33,725.84	
Misc. construction expense.....	982.60	501.90	3,127.51	28,554.07	3,908.95
Steam or hydraulic plant.....					
Old plant.....	1,554.60		15,000.00		
Total plant.....	17,446.67	9,022.30	119,972.79	601,283.07	64,885.23
Bank and cash balance.....	241.70	1,412.89	223.41	12,249.29	3,712.56
Securities and investments.....		7,000.00	17,269.65	26,069.18	5,000.00
Accounts receivable.....	122.53	1,915.09	1,971.17	14,920.21	423.47
Inventories.....			434.29	1,242.97	218.96
Sinking fund on local debentures.				90,978.12	973.10
Equity in Hydro systems.....	4,635.05	4,979.54	28,863.92	99,285.07	811.39
Other assets.....		1,057.01			
Total assets.....	22,445.95	25,386.83	168,735.23	846,027.91	76,024.71
Deficit.....	612.14				
Total.....	23,058.09	25,386.83	168,735.23	846,027.91	76,024.71
LIABILITIES					
Debenture balance.....	9,990.35	4,273.23	42,330.02	429,750.00	47,153.75
Accounts payable.....	772.74			704.46	
Bank overdraft.....					
Other liabilities.....		1,057.01		42,725.60	1,107.78
Total liabilities.....	10,763.09	5,330.24	42,330.02	473,180.06	48,261.53
RESERVES					
For equity in H.E.P.C. systems..	4,635.05	4,979.54	28,863.92	99,285.07	811.39
For depreciation.....	5,150.30	3,315.56	33,107.30	97,636.53	8,670.96
Total reserves.....	9,785.35	8,295.10	61,971.22	196,921.60	9,482.35
SURPLUS					
Debentures paid.....	2,509.65	1,260.96	26,720.62	25,250.00	9,971.91
Local sinking fund.....				90,978.12	973.10
Additional operating surplus.....		10,500.53	37,713.37	59,698.13	7,335.82
Total surplus.....	2,509.65	11,761.49	64,433.99	175,926.25	18,280.83
Total liabilities, reserves & surplus..	23,058.09	25,386.83	168,735.23	846,027.91	76,024.71
Percentage of net debt to total assets	60.4	25.8	30.3	58.3	63.7



## "A"—Continued

## Hydro Municipalities as at December 31, 1924

Brigden P.V.	Brussels 890	Burford P.V.	Burgess- ville, P.V.	Caledonia 1,326	Chatham 15,084	Chippawa 1,078	Clifford 467
\$ c. 101.03	\$ c.	\$ c. 202.00	\$ c.	\$ c.	\$ c. 39,649.32	\$ c.	\$ c.
5,664.19	11,905.40	6,541.50	2,191.96	11,447.85	59,836.04 116,366.30	14,028.38	5,574.68
1,253.30	1,751.30	1,598.69	687.19	3,696.37	63,187.47	2,957.47	787.64
1,716.37	2,776.70	2,671.93	628.09	3,207.28	57,341.08	2,539.70	1,133.50
223.35	1,520.11	376.89	156.07	807.74	8,653.46	532.60	532.21
858.11	1,527.56	704.50	453.00	587.31	26,907.19 27,709.25	849.15	37.44
1,381.00	2,827.50				43,927.53		
11,197.35	22,308.57	12,095.51	4,116.31	19,746.55	443,577.64	20,907.30	8,065.47
238.08	1,011.65	1,727.99	1,635.59	447.71	50.00	509.07	563.94
119.00	442.74	2,169.65	241.23	754.30	43,740.47	426.28	219.23
		180.05			11,881.33		
1,849.22	85.97	2,016.16	723.86	2,564.72	54,183.48	1,348.25	57.05
13,403.65	23,848.93	18,189.36	6,716.99	23,513.28	553,432.92	23,190.90	8,905.69
13,403.65	23,848.93	18,189.36	6,716.99	23,513.28	553,432.92	23,190.90	8,905.69
2,884.61 484.77	20,397.72 1,537.97	6,787.66	2,405.73	3,513.14 500.02	234,596.00 38,933.65	11,720.68 353.08	8,000.00 99.64
				6,616.38	2,806.20 27,098.41		
3,369.38	21,935.69	6,787.66	2,405.73	10,629.54	303,434.26	12,073.76	8,099.64
1,849.22 1,584.17	85.97	2,016.16 2,286.00	723.86 1,111.30	2,564.72 709.76	54,183.48 58,316.16	1,348.25 1,956.66	57.05
3,433.39	85.97	4,302.16	1,835.16	3,274.48	112,499.64	3,304.91	57.05
5,115.39	602.28	2,212.34	1,094.27	1,110.86	35,404.00	1,629.32	
1,485.49	1,224.99	4,887.20	1,381.83	8,498.40	102,095.02	6,182.91	749.00
6,600.88	1,827.27	7,099.54	2,476.10	9,609.26	137,499.02	7,812.23	749.00
13,403.65	23,848.93	18,189.36	6,716.99	23,513.28	553,432.92	23,190.90	8,905.69
29.2	92.3	39.5	40.1	50.7	60.7	55.3	91.5

# STATEMENT

## Balance Sheets of Electrical Departments of

### NIAGARA SYSTEM—Continued

Municipality.....	Clinton	Comber P.V.	Courtright	Dashwood P.V.	Delaware P.V.
Population.....	1,922		441		
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	2,550.00				
Substation equipment.....	7,544.43				
Distribution system, overhead....	17,715.37	4,885.21	5,114.58	1,863.82	2,432.66
Distribution system, underground					
Line transformers.....	5,354.08	2,670.63	550.63	953.68	216.75
Meters.....	6,133.46	1,729.10	692.82	945.55	659.15
Street light equipment, regular...	939.92	199.55	411.88	301.52	106.93
Street light equip., ornamental....					
Misc. construction expense.....	3,674.50	957.54	558.67	291.87	203.81
Steam or hydraulic plant.....					
Old plant.....	10,658.09				
Total plant.....	54,569.85	10,442.03	7,328.58	4,356.44	3,619.30
Bank and cash balance.....		1,133.49	398.28	356.61	371.92
Securities and investments.....					
Accounts receivable.....	4,008.54	1,425.25	1,545.16	11.24	2,540.42
Inventories.....	3,433.92				
Sinking fund on local debentures..	10,337.21				
Equity in Hydro systems.....	7,007.10	3,106.42	74.49	1,259.41	507.97
Other assets.....					
Total assets.....	79,356.62	16,107.19	9,346.51	5,983.70	7,039.61
Deficit.....					
Total.....	79,356.62	16,107.19	9,346.51	5,983.70	7,039.61
LIABILITIES					
Debenture balance.....	40,500.00	5,189.93	7,787.08	2,943.80	3,242.60
Accounts payable.....				108.59	
Bank overdraft.....	2,553.31				
Other liabilities.....					
Total liabilities.....	43,053.31	5,189.93	7,787.08	3,052.39	3,242.60
RESERVES					
For equity in H.E.P.C. systems..	7,007.10	3,106.42	74.49	1,259.41	507.97
For depreciation.....	11,054.81	2,122.42	135.00	868.34	912.91
Total reserves.....	18,061.91	5,228.84	209.49	2,127.75	1,420.88
SURPLUS					
Debentures paid.....		2,510.07	351.27	456.20	757.40
Local sinking fund.....	10,337.21				
Additional operating surplus.....	7,904.19	3,178.35	998.67	347.36	1,618.73
Total surplus.....	18,241.40	5,688.42	1,349.94	803.56	2,376.13
Total liabilities, reserves & surplus..	79,356.62	16,107.19	9,346.51	5,983.70	7,039.61
Percentage of net debt to total assets	52.7	39.9	84.0	64.6	49.6

## "A"—Continued

## Hydro Municipalities as at December 31, 1924

Dereham Township	Dorchester P.V.	Drayton 613	Dresden 1,426	Drumbo P.V.	Dublin P.V.	Dundas 5,070	Dunnville 3,605
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	.....	523.00	.....	.....	8,519.52	3,379.78
10,315.04	5,054.01	7,066.71	11,066.09	3,226.07	4,168.85	13,396.22	16,916.68
.....	.....	.....	.....	.....	.....	48,889.32	27,848.81
12,547.80	2,534.50	1,893.24	5,122.27	1,216.27	660.75	15,797.94	10,369.00
3,381.03	1,823.91	2,169.42	4,704.10	1,314.56	636.61	17,216.83	8,307.05
.....	245.41	569.63	880.52	216.58	426.53	1,763.60	2,320.25
.....	.....	.....	.....	.....	.....	.....	4,767.47
494.46	328.41	388.37	408.09	239.58	787.06	7,258.24	5,454.91
.....	.....	.....	4,815.01	.....	.....	1,867.38	10,717.62
26,738.33	9,986.24	12,087.37	27,519.08	6,213.06	6,679.80	114,709.05	90,081.57
2,827.25	2,855.11	87.14	2,166.51	1,099.42	250.18	7,686.55	2,636.65
.....	2,000.00	5,000.00	5,000.00	.....	.....	.....	5,000.00
624.07	43.00	376.83	876.98	294.17	27.21	1,352.01	4,533.38
.....	28.31	.....	691.83	37.83	7.99	1,875.74	1,493.84
4,969.43	902.73	1,122.60	4,718.15	889.80	615.84	28,131.12	4,706.86
.....	.....	.....	.....	.....	.....	.....	100.00
35,159.08	15,815.39	18,673.94	40,972.55	8,534.28	7,581.02	153,754.47	108,552.30
5,986.38	.....	.....	.....	.....	1,223.80	.....	.....
41,145.46	15,815.39	18,673.94	40,972.55	8,534.28	8,804.82	153,754.47	108,552.30
18,478.61	3,586.41	8,492.54	9,356.70	3,648.06	4,580.43	41,229.89	67,973.54
7,558.74	1,093.73	.....	.....	.....	646.98	2,743.11	1,421.83
.....	.....	.....	.....	.....	.....	.....	.....
26,037.35	4,680.14	8,492.54	9,356.70	3,648.06	5,227.41	43,973.00	69,395.37
4,969.43	902.73	1,122.60	4,718.15	889.80	615.84	28,131.12	4,706.86
7,913.91	2,078.68	2,060.40	5,007.54	1,467.00	1,342.00	27,729.05	12,225.81
12,883.34	2,981.41	3,183.00	9,725.69	2,356.80	1,957.84	55,860.17	16,932.67
2,224.77	713.59	1,007.46	6,881.55	851.94	1,619.57	11,770.11	7,526.46
.....	7,440.25	5,990.94	15,008.61	1,677.48	.....	42,151.19	14,697.80
2,224.77	8,153.84	6,998.40	21,890.16	2,529.42	1,619.57	53,921.30	22,224.26
41,145.46	15,815.39	18,673.94	40,972.55	8,534.28	8,804.82	153,754.47	108,552.30
86.2	31.3	48.3	25.8	47.7	75.0	35.0	66.8



# STATEMENT

## Balance Sheets of Electrical Departments of

### NIAGARA SYSTEM—Continued

Municipality.....	Dutton	Elmira	Elora	Embro	*Erieau
Population.....	823	2,392	1,079	475	153
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		4,670.17	1,458.42		
Substation equipment.....					
Distribution system, overhead....	7,400.24	20,452.22	12,485.10	6,100.61	5,431.12
Distribution system, underground					
Line transformers.....	2,531.80	9,331.73	5,548.56	1,738.56	474.00
Meters.....	3,016.97	8,757.72	4,045.08	1,366.39	500.50
Street light equipment, regular ..	516.26	1,081.56	501.34	223.37	228.30
Street light equip., ornamental....					
Misc. construction expense.....	338.94	2,783.22	926.18	69.45	477.08
Steam or hydraulic plant.....					
Old plant.....		2,325.08	1,425.47	429.25	
Total plant.....	13,804.21	49,401.70	26,390.15	9,927.63	7,111.00
Bank and cash balance.....	1,621.57	1,005.17	3,184.59	297.79	453.51
Securities and investments.....	1,500.00			1,000.00	
Accounts receivable.....	3,063.32	3,525.96	958.48	163.42	323.80
Inventories.....	126.10	1,827.37	1,046.64		
Sinking fund on local debentures..					
Equity in Hydro systems.....	3,144.07	10,735.00	7,196.29	2,459.91	16.64
Other assets.....					
Total assets.....	23,259.27	66,495.20	38,776.15	13,848.75	7,904.95
Deficit.....					
Total.....	23,259.27	66,495.20	38,776.15	13,848.75	7,904.95
LIABILITIES					
Debenture balance.....	7,213.90	16,212.49	9,186.90	6,350.68	
Accounts payable.....					7,427.36
Bank overdraft.....					
Other liabilities.....		175.00			
Total liabilities.....	7,213.90	16,387.49	9,186.90	6,350.68	7,427.36
RESERVES					
For equity in H.E.P.C. systems..	3,144.07	10,735.00	7,196.29	2,459.91	16.64
For depreciation.....	3,545.60	9,130.29	6,958.70	3,069.79	
Total reserves.....	6,689.67	19,865.29	14,154.99	5,529.70	16.64
SURPLUS					
Debentures paid.....	1,193.59	3,787.51	3,813.10	1,149.31	
Local sinking fund.....					
Additional operating surplus.....	8,162.11	26,454.91	11,621.16	819.06	460.95
Total surplus.....	9,355.70	30,242.42	15,434.26	1,968.37	460.95
Total liabilities, reserves & surplus..	23,259.27	66,495.20	38,776.15	13,848.75	7,904.95
Percentage of net debt to total assets	35.8	29.3	29.0	55.7	94.1

\*Four months' operation only.

## “A”—Continued

## Hydro Municipalities as at December 31, 1924

Essex 1,591	Etobicoke Township	Exeter 1,531	Fergus 1,762	Ford City 5,724	Forest 1,437	Galt 13,222	George- town 1,973
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
21,173.03	2,683.93	15,316.73	18,216.17	72,281.48	5,267.28	192,540.73	12.00
20,691.25	110,036.40	15,316.73	18,216.17	72,281.48	15,099.82	150,478.97	22,006.50
6,702.50	29,760.25	4,447.73	7,796.20	26,348.55	4,555.92	46,106.74	12,830.81
6,085.62	37,408.59	5,301.54	7,308.18	27,911.47	6,898.07	56,800.70	8,562.17
423.72	7,381.46	900.06	1,358.33	2,000.02	2,000.02	10,943.46	1,232.34
421.53	3,940.68	1,740.63	896.42	2,646.61	553.65	60,041.09	1,901.26
			2,546.59		11,084.87	26,097.50	2,209.80
34,324.62	209,700.41	30,390.62	38,121.89	129,188.11	45,459.63	742,042.30	48,754.88
3,019.39	50.00	4,260.72	1,271.68		1,064.99		1,585.71
			1,500.00		4,500.00		17,182.27
3,923.21	6,513.98	4,436.27	2,040.70	18,016.73	1,862.34	49,281.31	4,182.56
	1,662.13	2,262.84	328.96		4,081.16	17,016.40	1,221.53
						96,906.63	
4,565.20	18,237.77	7,385.48	6,289.10	13,905.66	3,393.93	93,417.86	18,197.34
344.72	177.52					907.86	
46,177.14	236,341.81	48,735.93	49,552.33	161,110.50	60,362.05	999,572.36	91,124.29
46,177.14	236,341.81	48,735.93	49,552.33	161,110.50	60,362.05	999,572.36	91,124.29
22,500.00	103,425.81	15,379.35	26,093.83	109,726.32	21,052.28	496,860.42	16,212.48
3,057.92	3,138.64			5,567.95	468.06	85,677.99	983.37
	19,121.23					27,326.05	
342.33	3,103.96						
25,900.25	128,789.64	15,379.35	26,093.83	115,294.27	21,520.34	609,864.46	17,195.85
4,565.20	18,237.77	7,385.48	6,289.10	13,905.66	3,393.93	93,417.86	18,197.34
3,480.96	32,293.86	5,757.40	6,516.73	6,843.13	6,027.47	91,330.68	15,965.98
8,046.16	50,531.63	13,142.88	12,805.83	20,748.79	9,421.40	184,748.54	34,163.32
	12,574.19	4,620.70	3,906.17	4,273.68	13,347.72	21,141.53	3,787.52
12,230.73	44,446.35	15,593.00	6,746.50	20,793.76	16,072.59	96,906.63	35,977.60
						86,911.20	
12,230.73	57,020.54	20,213.70	10,652.67	25,067.44	29,420.31	204,959.36	39,765.12
46,177.14	236,341.81	48,735.93	49,552.33	161,110.50	60,362.05	999,572.36	91,124.29
62.2	59.0	37.1	60.3	78.3	37.7	63.3	23.5

# STATEMENT

## Balance Sheets of Electrical Departments of

### NIAGARA SYSTEM—Continued

Municipality.....	Glencoe	Goderich	Grantham Township	Granton P.V.	Guelph
Population.....	840	4,220			18,420
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		12,957.48			12,004.40
Substation equipment.....		9,795.28			92,424.17
Distribution system, overhead....	15,783.40	46,230.10	10,579.61	3,491.76	119,563.77
Distribution system, underground					
Line transformers.....	3,395.54	14,612.09	6,285.77	793.55	59,630.68
Meters.....	3,432.49	12,916.93	2,521.63	986.19	59,288.59
Street light equipment, regular...	1,647.22	4,288.27		149.27	31,690.23
Street light equip., ornamental....					
Misc. construction expense.....	3,204.85	4,276.13	267.30	113.08	15,054.19
Steam or hydraulic plant.....					
Old plant.....		14,622.15			
Total plant.....	27,463.50	119,698.43	19,654.31	5,533.85	389,656.03
Bank and cash balance.....	2,229.96	4,392.51		2,700.76	4,386.69
Securities and investments.....					25,000.00
Accounts receivable.....	2,005.36	16,264.40	2,227.87	31.00	33,294.24
Inventories.....		1,320.04			30,399.15
Sinking fund on local debentures..		5,438.57	2,976.97		24,799.75
Equity in Hydro systems.....	965.18	20,715.15	6,321.41	1,356.96	105,512.54
Other assets.....					
Total assets.....	32,664.00	167,829.10	31,180.56	9,622.57	613,048.40
Deficit.....					
Total.....	32,664.00	167,829.10	31,180.56	9,622.57	613,048.40
LIABILITIES					
Debenture balance.....	15,758.39	55,962.53	10,439.76	2,991.26	87,083.82
Accounts payable.....		4,114.01	5,261.28	133.36	33,919.10
Bank overdraft.....					
Other liabilities.....					
Total liabilities.....	15,758.39	60,076.54	15,701.04	3,124.62	121,002.92
RESERVES					
For equity in H.E.P.C. systems..	965.18	20,715.15	6,321.41	1,356.96	105,512.54
For depreciation.....	1,871.08	34,106.57	4,317.16	1,222.05	72,825.96
Total reserves.....	2,836.26	54,821.72	10,638.57	2,579.01	178,338.50
SURPLUS					
Debentures paid.....	4,354.49	20,125.52	560.24	508.74	57,916.17
Local sinking fund.....		5,438.57	2,976.97		24,799.75
Additional operating surplus.....	9,714.86	27,366.75	1,303.74	3,410.20	230,991.06
Total surplus.....	14,069.35	52,930.84	4,840.95	3,918.94	313,706.98
Total liabilities, reserves & surplus..	32,664.00	167,829.10	31,180.56	9,622.57	613,048.40
Percentage of net debt to total assets	49.7	38.5	58.1	37.7	25.6



“A”—Continued

Hydro Municipalities as at December 31, 1924

Hagers- ville 1,155	Hamilton 120,234	Harriston 1,318	Harrow P.V.	Hensall 705	Hespeler 2,907	Highgate 414	*Humber- stone 1,428
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
864.37	600,820.82	600.00			3,560.00		
14,445.87	265,038.77	14,335.19	7,577.90	7,953.22	12,966.98	4,001.69	16,643.31
	597,197.14				23,611.94		
	306,606.46						
4,775.17	318,610.28	4,752.39	4,314.45	2,521.47	11,032.94	1,488.37	4,180.17
5,554.30	338,781.74	4,238.79	3,245.66	2,756.30	9,800.15	1,342.77	4,172.15
659.82	108,884.80	641.15	85.26	436.67	1,650.22	294.56	600.12
272.95	166,043.58	644.74		447.50	53.67	514.48	2,681.50
	2,000.00	1,118.33		400.00	2,129.87		
26,572.48	2703,983.59	26,330.59	15,223.27	14,515.16	64,805.77	7,641.87	28,277.25
804.78	185,914.61		3,955.74	4,228.44	5,486.25	3,023.06	1,229.80
2,000.00							
2,424.92	336,792.85	1,435.96	2,720.11	885.57	3,900.23	542.05	93.80
30.00	93,916.07	350.00				75.82	
	294,398.12						
11,566.28	410,983.63	5,141.82	1,709.23	2,773.47	13,461.11	1,781.01	45.03
	3,217.62						
43,398.46	4029,206.49	33,258.37	23,608.35	22,402.64	87,653.36	13,063.81	29,645.88
43,398.46	4029,206.49	33,258.37	23,608.35	22,402.64	87,653.36	13,063.81	29,645.88
5,956.22	2331,677.63	12,963.57	12,000.00	10,350.83	30,285.24	4,281.36	28,000.00
1,941.20	203,091.50	12.81	1,366.46	1,255.69	183.34		1,361.34
		2,321.69					
	93,066.57	110.00					
7,897.42	2627,835.70	15,298.07	13,476.46	11,606.52	30,468.58	4,281.36	29,361.34
11,566.28	410,983.63	5,141.82	1,709.23	2,773.47	13,461.11	1,781.01	45.03
1,238.39	442,751.09	2,869.77	2,455.43	3,233.16	5,261.91	1,536.40	
12,804.67	853,734.72	8,011.59	4,164.66	6,006.63	18,723.02	3,317.41	45.03
2,043.78	88,322.37	5,354.46		1,649.17	22,285.27	718.64	
	294,398.12						
20,652.59	164,915.58	4,594.25	5,967.23	3,140.32	16,176.49	4,746.40	239.51
22,696.37	547,636.07	9,948.71	5,967.23	4,789.49	38,461.76	5,465.04	239.51
43,398.46	4029,206.49	33,258.37	23,608.35	22,402.64	87,653.36	13,063.81	29,645.88
24.8	70.2	54.4	61.5	59.1	41.0	37.9	99.1

\*2 months' operation only.

# STATEMENT

## Balance Sheets of Electrical Departments of

### NIAGARA SYSTEM—Continued

Municipality.....	Ingersoll	Jarvis	Kingsville	Kitchener	Lambeth
Population.....	5,002	475	1,990	23,571	P.V.
<b>ASSETS</b>	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	11,922.65		1,958.72	49,076.76	
Substation equipment.....	17,002.71			145,147.73	
Distribution system, overhead....	43,262.19	7,866.10	20,860.67	187,611.18	4,977.53
Distribution system, underground				31,269.99	
Line transformers.....	18,600.71	2,586.66	8,996.19	112,729.52	817.71
Meters.....	20,738.39	1,362.20	9,251.60	115,247.22	1,515.55
Street light equipment, regular...	2,762.09	549.59	634.82	37,642.33	167.40
Street light equip., ornamental...	4,597.59				
Misc. construction expense.....	9,828.40	536.27		13,385.94	300.71
Steam or hydraulic plant.....					
Old plant.....	20,149.68			52,398.91	
Total plant.....	148,864.41	12,900.82	41,702.00	744,509.58	7,778.90
Bank and cash balance.....	1,094.65		12,348.54	1,954.98	1,315.70
Securities and investments.....	17,696.46			22,000.00	
Accounts receivable.....	17,478.63	603.18	5,656.05	89,131.34	953.96
Inventories.....	2,067.06			19,781.67	
Sinking fund on local debentures.	31,757.10				
Equity in Hydro systems.....	32,253.81	241.28	5,335.53	183,684.19	1,168.63
Other assets.....			943.87	578.82	
Total assets.....	251,212.12	13,745.28	65,985.99	1061,640.58	11,217.19
Deficit.....					
Total.....	251,212.12	13,745.28	65,985.99	1061,640.58	11,217.19
<b>LIABILITIES</b>					
Debenture balance.....	79,800.00	10,198.87	33,500.00	373,186.73	3,418.60
Accounts payable.....	15,052.80		4,835.96	30,016.82	
Bank overdraft.....		183.44			
Other liabilities.....	4,597.59	1,840.00	934.08	17,094.23	
Total liabilities.....	99,450.39	12,222.31	39,270.04	420,297.78	3,418.60
<b>RESERVES</b>					
For equity in H.E.P.C. systems..	32,253.81	241.28	5,335.53	183,684.19	1,168.63
For depreciation.....	20,813.92		5,523.62	140,698.61	1,585.24
Total reserves.....	53,067.73	241.28	10,859.15	324,382.80	2,753.87
<b>SURPLUS</b>					
Debentures paid.....		301.13		138,963.27	581.40
Local sinking fund.....	31,757.10				
Additional operating surplus.....	66,936.90	980.56	15,856.80	177,996.73	4,463.32
Total surplus.....	98,694.00	1,281.69	15,856.80	316,960.00	5,044.72
Total liabilities, reserves & surplus..	251,212.12	13,745.28	65,985.99	1061,640.58	11,217.19
Percentage of net debt to total assets	37.2	90.5	64.7	47.8	34.0

## “A”—Continued

## Hydro Municipalities as at December 31, 1924

Leaming- ton 3,969	Listowel 2,431	London 61,369	London Township	Louth Township	Lucan 602	Lynden P.V.	Markham 967
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,972.41	1,283.96	344,518.58				241.18	
24,763.22	29,557.53	533,493.02					
		611,792.82	6,054.81	1,990.02	8,298.22	2,960.94	9,598.14
		123,198.67					
12,373.53	12,916.60	135,328.31	1,688.16	2,548.23	3,326.58	1,207.38	3,752.37
15,205.44	11,518.95	242,424.46	1,660.83	674.46	2,640.60	1,154.36	3,507.69
338.00	1,238.10	50,645.80			372.54	173.44	467.33
	5,772.22	2,382.69					
	1,571.16	81,994.51	429.31	Cr 126.84	445.77	193.57	1,113.39
	4,745.30		1,733.80		2,860.45		11.03
59,652.60	68,603.82	2125,778.86	11,566.91	5,085.87	17,944.16	5,930.87	18,449.95
21,538.21	1,598.81	33,573.36	4,363.65	339.93	1,277.92	1,328.97	73.86
			2,000.00		7,000.00		2,221.40
12,700.32	4,367.46	241,146.97	1,539.21	312.68	113.71	1,029.04	1,707.73
		55,185.95			43.97		
		217,278.83					
6,272.51	9,018.60	364,011.87		404.35	4,170.20	3,460.16	1,060.01
		210,000.00					
100,163.64	83,588.69	3246,975.84	19,469.77	6,142.83	30,549.96	11,749.04	23,512.95
				257.94			
100,163.64	83,588.69	3246,975.84	19,469.77	6,400.77	30,549.96	11,749.04	23,512.95
48,000.00	27,194.58	1398,640.23	12,014.70	1,676.50	7,960.30	3,796.83	8,532.31
6,181.37	1,751.37	303,600.79	1,176.99	3,500.93	330.56		
1,117.38	5,742.30	24,255.19					
55,298.75	34,688.25	1726,496.21	13,191.69	5,177.43	8,290.86	3,796.83	8,532.31
6,272.51	9,018.60	364,011.87		404.35	4,170.20	3,460.16	1,060.01
9,059.22	10,591.01	429,636.84	2,227.21	545.49	3,710.53	1,566.05	1,835.20
15,331.73	19,609.61	793,648.71	2,227.21	949.84	7,880.73	5,026.21	2,895.21
	15,995.31	108,259.77	1,485.30	273.50	3,253.32	698.17	3,026.52
		217,278.83					
29,533.16	13,295.52	401,292.32	2,565.57		11,125.05	2,227.83	9,058.91
29,533.16	29,290.83	726,830.92	4,050.87	273.50	14,378.37	2,926.00	12,085.43
100,163.64	83,588.69	3246,975.84	19,469.77	6,400.77	30,549.96	11,749.04	23,512.95
58.8	46.5	56.9	67.7	90.2	31.4	45.8	37.9



# STATEMENT

## Balance Sheets of Electrical Departments of

### NIAGARA SYSTEM—Continued

Municipality.....	Merlin P.V.	Merritton	Milton	Milverton	Mimico
Population.....		2,591	1,900	1,056	4,137
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....		350.00		237.20	12,243.22
Substation equipment.....		9,737.96	11,951.93		24,848.78
Distribution system, overhead....	7,443.31	14,175.07	15,925.57	8,475.11	45,191.34
Distribution system, underground					
Line transformers.....	2,445.28	3,507.42	7,498.61	6,044.63	16,797.76
Meters.....	1,546.18	7,222.03	8,497.42	3,343.91	17,949.77
Street light equipment, regular	517.08	1,407.25	986.67	570.49	2,982.83
Street light equip., ornamental....					
Misc. construction expense.....	455.36	2,143.09	3,058.25	557.93	2,594.43
Steam or hydraulic plant.....					
Old plant.....	241.85		4,065.85		
Total plant.....	12,649.06	38,542.82	51,984.30	19,229.27	122,608.13
Bank and cash balance.....	4,913.17	1,130.94	2,590.31	29.86	3,891.93
Securities and investments.....					
Accounts receivable.....	2,153.46		2,588.86	5,320.63	3,959.33
Inventories.....		206.65	2,649.17		90.10
Sinking fund on local debentures..					
Equity in Hydro systems.....	614.36	5,453.85	20,653.46	7,347.27	13,952.86
Other assets.....					
Total assets.....	20,330.05	45,334.26	80,466.10	31,927.03	144,502.35
Deficit.....					
Total.....	20,330.05	45,334.26	80,466.10	31,927.03	144,502.35
<b>LIABILITIES</b>					
Debenture balance.....	12,591.44	2,845.34	10,350.62	6,432.63	82,811.87
Accounts payable.....	1,257.76	4,717.08	13,465.31	1,522.45	6,562.05
Bank overdraft.....				374.21	
Other liabilities.....				432.92	795.00
Total liabilities.....	13,849.20	7,562.42	23,815.93	8,762.21	90,168.92
<b>RESERVES</b>					
For equity in H.E.P.C. systems..	614.36	5,453.85	20,653.46	7,347.27	13,952.86
For depreciation.....	239.00	2,812.00	8,856.78	3,040.24	18,324.60
Total reserves.....	853.36	8,265.85	29,510.24	10,387.51	32,277.46
<b>SURPLUS</b>					
Debentures paid.....	772.77	2,340.87	14,362.36	3,067.37	9,188.13
Local sinking fund.....					
Additional operating surplus.....	4,854.72	27,165.12	12,777.57	9,709.94	12,867.84
Total surplus.....	5,627.49	29,505.99	27,139.93	12,777.31	22,055.97
Total liabilities, reserves & surplus..	20,330.05	45,334.26	80,466.10	31,927.03	144,502.35
Percentage of net debt to total assets	70.2	18.9	39.8	35.6	69.0

## "A"—Continued

## Hydro Municipalities as at December 31, 1924

Mitchell 1,739	Moore- field P.V.	Mount Brydges P.V.	Newbury 307	New Hamburg 1,390	New Toronto 3,182	Niagara Falls 15,404	Niagara on-the-lake 1,714
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
11,071.14				2,329.29	395.00	104,990.78	216.42
11,493.01				1,083.10		96,995.94	4,633.32
17,838.89	2,632.63	3,715.57	5,841.70	14,213.99	44,901.51	134,780.06	17,106.78
6,909.91	857.72	984.37	1,036.62	5,546.73	12,890.99	95,385.15	3,144.31
8,590.59	728.32	1,425.67	757.65	5,732.42	15,222.23	78,851.56	4,416.93
2,169.51	295.88	164.44	765.45	1,467.45	3,447.80	18,666.53	698.30
1,035.13	348.35	143.82	485.13	1,017.60	2,805.53	46,187.41	
1,500.00			348.22	5,242.56		7,898.09	1,131.07
60,608.18	4,862.90	6,433.87	9,234.77	36,633.14	79,663.06	13,272.14	
5,213.67	1,048.81	3,649.02	1,378.80	6,241.44	17,467.86	597,027.66	31,347.13
2,000.00						100.00	706.59
2,331.18	224.01	751.61	771.05	3,430.40	10,510.53	54,366.30	395.57
517.24		34.41	15.50	930.67	483.89	2,511.10	36.11
8,857.69	614.78	1,337.21	286.43	9,819.23	56,060.42	63,734.29	2,639.49
					952.05	9,244.60	
79,527.96	6,750.50	12,206.12	11,686.55	57,054.88	165,137.81	726,983.95	35,124.89
79,527.96	6,750.50	12,206.12	11,686.55	57,054.88	165,137.81	726,983.95	35,124.89
4,460.39	3,453.29	3,469.76	8,100.00	12,690.27	6,289.40	340,464.45	11,243.09
925.64				559.20	7,206.91	26,274.27	350.76
						24,687.73	
					885.10	7,878.26	
5,386.03	3,453.29	3,469.76	8,100.00	13,249.47	14,381.41	399,304.71	11,593.85
8,857.69	614.78	1,337.21	286.43	9,819.23	56,060.42	63,734.29	2,639.49
17,096.31	725.90	1,639.00	512.04	10,724.15	14,036.52	50,843.29	2,042.47
25,954.00	1,340.68	2,976.21	798.47	20,543.38	70,096.94	114,577.58	4,681.96
17,834.83	1,046.71	750.24	1,654.39	5,038.81	1,710.60	139,778.55	5,430.45
30,353.10	909.82	5,009.91	1,133.69	18,223.22	78,948.86	73,323.11	13,418.63
48,187.93	1,956.53	5,760.15	2,788.08	23,262.03	80,659.46	213,101.66	18,849.08
79,527.96	6,750.50	12,206.12	11,686.55	57,054.88	165,137.81	726,983.95	35,124.89
7.6	56.2	31.9	71.0	28.0	13.1	60.5	35.6

# STATEMENT

## Balance Sheets of Electrical Departments of

### NIAGARA SYSTEM—Continued

Municipality.....	North York Township	Norwich 1,315	N. Norwich Township	S. Norwich Township	Oil Springs 469
Population.....					
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....		927.30			1,042.00
Substation equipment.....					
Distribution system, overhead....	85,303.81	9,122.40	1,111.96	1,989.03	10,989.77
Distribution system, underground					
Line transformers.....	11,321.02	4,153.74	3,627.17	2,411.09	5,044.87
Meters.....	9,588.85	5,516.86	1,018.34	479.00	2,937.63
Street light equipment, regular...	77.22	1,097.00			305.72
Street light equip., ornamental....		2,870.94			
Misc. construction expense.....	5,238.55	1,669.45	180.17	339.84	1,755.08
Steam or hydraulic plant.....					
Old plant.....		3,509.82			
Total plant.....	111,529.45	28,867.51	5,937.64	5,218.96	22,075.07
Bank and cash balance.....	8,990.48	3,653.49	88.36		5,327.48
Securities and investments.....		6,000.00			
Accounts receivable.....	2,277.79	7,088.57			2,243.36
Inventories.....	421.35	278.11			483.09
Sinking fund on local debentures.					
Equity in Hydro systems.....	974.86	8,784.51			3,168.01
Other assets.....	352.86				
Total assets.....	124,546.79	54,672.19	6,026.00	5,218.96	33,297.01
Deficit.....					
Total.....	124,546.79	54,672.19	6,026.00	5,218.96	33,297.01
<b>LIABILITIES</b>					
Debenture balance.....	78,464.04	10,244.18	4,665.71	3,921.57	13,079.30
Accounts payable.....	41,878.76				1,492.50
Bank overdraft.....					
Other liabilities.....	246.00				
Total liabilities.....	120,588.80	10,244.18	4,665.71	3,921.57	14,571.80
<b>RESERVES</b>					
For equity in H.E.P.C. systems..	974.86	8,784.51			3,168.01
For depreciation.....	920.00	10,641.82			2,602.14
Total reserves.....	1,894.86	19,426.33			5,770.15
<b>SURPLUS</b>					
Debentures paid.....	2,007.55	3,511.82	1,360.29	1,297.39	3,642.01
Local sinking fund.....					
Additional operating surplus.....	55.58	21,489.86			9,313.05
Total surplus.....	2,063.13	25,001.68	1,360.29	1,297.39	12,955.06
Total liabilities, reserves & surplus..	124,546.79	54,672.19	6,026.00	5,218.96	33,297.01
Percentage of net debt to total assets	97.5	22.3	77.4	75.1	48.3



## "A"—Continued

## Hydro Municipalities as at December 31, 1924

Otterville P.V.	Palmerston 1,820	Paris 4,345	Parkhill 1,192	Petrolia 2,836	Plattsville P.V.	Point Edward 1,116	Port Colborne 3,624
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	7,626.26	13,555.48	900.00	.....	.....	5,112.77
.....	691.88	18,498.57	.....	2,403.55	.....	.....	.....
3,838.45	17,011.78	44,064.84	2,265.84	28,203.69	2,969.09	10,735.25	48,159.31
.....	.....	3,056.35	.....	.....	.....	.....	.....
1,774.43	4,911.85	14,702.07	846.78	21,747.50	906.14	5,045.33	13,713.72
1,480.39	4,746.01	15,702.63	.....	11,889.86	1,305.84	3,731.20	13,288.36
378.37	994.76	2,848.12	1,299.57	985.28	133.65	652.11	1,418.13
.....	.....	9,596.40	.....	3,864.07	.....	.....	.....
142.00	1,819.18	84.60	.....	5,497.64	535.92	503.14	4,935.49
.....	.....	.....	.....	.....	.....	.....	.....
.....	4,018.71	16,684.76	.....	3,389.94	.....	.....	9,929.60
.....	.....	.....	.....	.....	.....	.....	.....
7,613.64	34,194.17	129,808.25	21,024.02	78,881.53	5,850.64	20,667.03	96,557.38
.....	.....	.....	.....	.....	.....	.....	.....
1,339.09	1,053.90	2,444.87	2,366.34	.....	189.94	6,527.64	222.86
3,000.00	3,000.00	7,000.00	2,000.00	11,000.00	.....	.....	.....
566.60	8,613.22	4,365.53	884.09	7,664.02	252.07	1,512.53	9,156.00
19.38	3,352.51	116.25	.....	4,589.67	.....	.....	1,638.54
.....	.....	28,179.78	.....	.....	.....	.....	.....
899.71	4,658.94	16,296.69	842.70	14,357.56	2,748.30	3,140.73	7,033.25
.....	.....	.....	.....	.....	.....	.....	.....
13,438.42	54,872.74	188,211.37	27,117.15	116,492.78	9,040.95	31,847.93	114,608.03
.....	.....	.....	.....	.....	1,538.42	.....	.....
13,438.42	54,872.74	188,211.37	27,117.15	116,492.78	10,579.37	31,847.93	114,608.03
.....	.....	.....	.....	.....	.....	.....	.....
3,094.26	10,636.78	54,507.41	12,682.41	40,525.12	4,245.54	14,813.45	58,157.50
.....	2,311.89	.....	17.04	362.45	829.99	2,842.97	27,433.19
.....	.....	.....	.....	5,319.71	.....	.....	254.83
.....	.....	.....	.....	.....	.....	.....	185.00
3,094.26	12,948.67	54,507.41	12,699.45	46,207.28	5,075.53	17,656.42	86,030.52
.....	.....	.....	.....	.....	.....	.....	.....
899.71	4,658.94	16,296.69	842.70	14,357.56	2,748.30	3,140.73	7,033.25
1,663.52	5,970.41	33,220.23	1,923.00	13,535.46	1,764.08	3,776.00	5,753.00
.....	.....	.....	.....	.....	.....	.....	.....
2,563.23	10,629.35	49,516.92	2,765.70	27,893.02	4,512.38	6,916.73	12,786.25
.....	.....	.....	.....	.....	.....	.....	.....
1,405.74	16,363.22	37,492.59	1,947.61	9,474.88	991.46	2,186.55	7,842.50
.....	.....	28,179.78	.....	.....	.....	.....	.....
6,375.19	14,931.50	18,514.67	9,704.39	32,917.60	.....	5,088.23	7,948.76
.....	.....	.....	.....	.....	.....	.....	.....
7,780.93	31,294.72	84,187.04	11,652.00	42,392.48	991.46	7,274.78	15,791.26
.....	.....	.....	.....	.....	.....	.....	.....
13,438.42	54,872.74	188,211.37	27,117.15	116,492.78	10,579.37	31,847.93	114,608.03
.....	.....	.....	.....	.....	.....	.....	.....
24.6	25.7	18.3	48.3	45.2	80.6	61.5	79.9

# STATEMENT

## Balance Sheets of Electrical Departments of

### NIAGARA SYSTEM—Continued

Municipality.....	Port Credit 1,134	Port Dalhousie 1,467	Port Dover 1,573	Port Stanley 726	Preston 5,576
Population.....					
<b>ASSETS</b>	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	675.00			1,505.38	
Substation equipment.....					36,545.06
Distribution system, overhead....	15,020.65	11,110.79	21,242.52	15,156.59	64,048.76
Distribution system, underground					
Line transformers.....	4,551.17	4,918.85	5,076.70	5,952.24	35,992.61
Meters.....	5,337.56	6,405.41	3,405.31	3,141.85	27,865.56
Street light equipment, regular....	638.03	627.45	1,501.84	903.93	3,811.99
Street light equip., ornamental....					
Misc. construction expense.....	626.31	1,720.76	2,370.66	5,606.55	6,085.76
Steam or hydraulic plant.....					
Old plant.....		6,018.38		577.51	32,126.75
Total plant.....	26,848.72	30,801.64	33,597.03	32,844.05	206,476.49
Bank and cash balance.....		1,726.35	273.02	2,243.53	
Securities and investments.....	2,000.00			3,000.00	
Accounts receivable.....	879.98	1,190.85	1,632.15	2,336.50	7,599.39
Inventories.....					60.48
Sinking fund on local debentures.		503.94			
Equity in Hydro systems.....	3,653.73	3,281.56	864.78	8,276.33	46,669.27
Other assets.....					
Total assets.....	33,382.43	37,504.34	36,366.98	48,700.41	260,805.63
Deficit.....					
Total.....	33,382.43	37,504.34	36,366.98	48,700.41	260,805.63
<b>LIABILITIES</b>					
Debenture balance.....	5,500.19	18,051.61	25,881.32	13,535.39	76,152.48
Accounts payable.....	2,065.60				472.65
Bank overdraft.....	1,211.97				4,054.55
Other liabilities.....			1.00		
Total liabilities.....	8,777.76	18,051.61	25,882.32	13,535.39	80,679.68
<b>RESERVES</b>					
For equity in H.E.P.C. systems..	3,653.73	3,281.56	864.78	8,276.33	46,669.27
For depreciation.....	5,920.08	1,881.37	1,797.00	8,670.17	46,391.70
Total reserves.....	9,573.81	5,162.93	2,661.78	16,946.50	93,060.97
<b>SURPLUS</b>					
Debentures paid.....	2,999.81	4,448.39	3,118.68	5,414.61	56,647.52
Local sinking fund.....		503.94			
Additional operating surplus.....	12,031.05	9,337.47	4,704.20	12,803.91	30,417.46
Total surplus.....	15,030.86	14,289.80	7,822.88	18,218.52	87,064.98
Total liabilities, reserves & surplus..	33,382.43	37,504.34	36,366.98	48,700.41	260,805.63
Percentage of net debt to total assets	20.9	52.0	72.9	33.4	37.6

## "A"—Continued

## Hydro Municipalities as at December 31, 1924

Princeton P.V.	Queenston P.V.	Ridgetown 1,947	Riverside 3,034	Rockwood P.V.	Rodney 711	St. Catharines 21,194	St. Clair Beach 131
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
		1,024.24		79.00		37,167.09	
2,875.20	6,476.71	14,882.83	41,848.18	5,941.83	6,686.88	59,089.06	
						153,358.18	5,374.20
630.92	1,076.50	6,738.31	11,900.97	1,370.61	1,494.68	67,216.67	1,514.68
741.86	1,188.12	7,001.79	10,791.62	1,764.14	2,546.33	58,141.58	785.99
116.30	409.49	903.00		442.05	546.92	14,648.60	
		1,319.10				27,448.87	
64.35	1,948.71	1,273.67	3,675.95	308.05	769.70	36,562.45	
		5,088.46			700.00	8,241.00	
4,338.63	11,099.53	38,231.40	68,216.72	9,905.68	12,744.51	461,873.50	7,674.87
610.58	359.41	2,672.76		643.91	1,952.93	7,403.18	
		13,500.00			5,000.00	4,900.00	
209.67	16.10	2,474.84	5,905.46	396.17	1,298.20	15,596.07	2,164.56
50.32		1,815.71		206.47		253.20	
						32,637.86	
1,180.44	519.44	6,136.80	3,131.63	2,262.97	1,416.81	54,268.06	476.11
6,389.64	11,994.48	64,831.51	77,253.81	13,415.20	22,412.45	576,931.87	10,315.54
6,389.64	11,994.48	64,831.51	77,253.81	13,415.20	22,412.45	576,931.87	10,315.54
2,877.92	7,307.62	11,718.02	54,696.25		7,359.28	201,837.34	5,990.27
	1,512.03		4,288.75			25,051.11	552.44
		1,319.10				30,448.87	
2,877.92	8,819.65	13,037.12	58,985.00		7,359.28	257,337.32	6,542.71
1,180.44	519.44	6,136.80	3,131.63	2,262.97	1,416.81	54,268.06	476.11
1,091.28	539.00	6,679.60	3,214.69	2,859.26	2,038.69	79,821.42	292.00
2,271.72	1,058.44	12,816.40	6,346.32	5,122.23	3,455.50	134,089.48	768.11
672.08	692.38	7,737.97	2,803.75	2,000.00	1,140.72	30,185.57	351.18
						32,637.86	
567.92	1,424.01	31,240.02	9,118.74	6,292.97	10,456.95	122,681.64	2,653.54
1,240.00	2,116.39	38,977.99	11,922.49	8,292.97	11,597.67	185,505.07	3,004.72
6,389.64	11,994.48	64,831.51	77,253.81	13,415.20	22,412.45	576,931.87	10,315.54
55.2	76.8	22.2	79.5		35.0	45.8	66.5



# STATEMENT

## Balance Sheets of Electrical Departments of

### NIAGARA SYSTEM—Continued

Municipality.....	St. George P.V.	St. Jacobs P.V.	St. Marys	St. Thomas	*Sandwich
Population.....			4,017	17,779	5,010
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....			3,000.00	41,969.65	
Substation equipment.....			24,010.37	85,271.91	1,787.27
Distribution system, overhead....	3,609.13	5,181.12	39,037.17	89,964.35	60,112.05
Distribution system, underground				11,868.96	
Line transformers.....	1,175.69	2,252.24	15,089.01	40,799.17	25,766.27
Meters.....	1,781.54	1,539.36	17,682.40	52,466.07	25,546.31
Street light equipment, regular	228.77	311.60	2,854.46	13,416.00	450.56
Street light equip., ornamental				7,538.63	
Misc. construction expense.....	374.18	452.22	3,567.54	6,452.39	8,932.59
Steam or hydraulic plant.....					
Old plant.....			20,696.85		
Total plant.....	7,169.31	9,736.54	125,937.80	349,747.13	122,595.05
Bank and cash balance.....	1,363.61	23.86		23,527.12	4,417.55
Securities and investments.....	7,500.00	1,000.00		13,206.81	
Accounts receivable.....		232.46	6,697.82	27,582.60	3,665.99
Inventories.....	375.00		4,376.25	32,125.48	
Sinking fund on local debentures..			6,505.31		
Equity in Hydro systems.....	2,141.06	1,099.12	25,486.45	81,162.74	3,816.99
Other assets.....				6,529.57	
Total assets.....	18,548.98	12,091.98	169,003.63	533,881.45	134,495.58
Deficit.....					
Total.....	18,548.98	12,091.98	169,003.63	533,881.45	134,495.58
LIABILITIES					
Debenture balance.....	4,933.48	4,577.30	47,003.04	75,520.03	83,246.76
Accounts payable.....	100.73	41.56	260.59	20,414.67	22,447.05
Bank overdraft.....			1,637.49		
Other liabilities.....			326.42	2,761.88	2,501.10
Total liabilities.....	5,034.21	4,618.86	49,227.54	98,696.58	108,194.91
RESERVES					
For equity in H.E.P.C. systems..	2,141.06	1,099.12	25,486.45	81,162.74	3,816.99
For depreciation.....	1,941.00	708.93	33,680.75	73,238.86	7,483.19
Total reserves.....	4,082.06	1,808.05	59,167.20	154,401.60	11,300.18
SURPLUS					
Debentures paid.....	1,066.52	1,422.70	42,243.98	67,564.40	2,326.27
Local sinking fund.....			6,505.31		
Additional operating surplus.....	8,366.19	4,242.37	11,859.60	213,218.87	12,674.22
Total surplus.....	9,432.71	5,665.07	60,608.89	280,783.27	15,000.49
Total liabilities, reserves & surplus..	18,548.98	12,091.98	169,003.63	533,881.45	134,495.58
Percentage of net debt to total assets	30.6	42.0	31.1	21.8	82.7

\*Nine months' operation only.

## "A"—Continued

## Hydro Municipalities as at December 31, 1924

Sarnia 15,176	Scarboro' Twp. 1,902	Seaforth 1,902	Simcoe 4,049	Springfield 381	Stamford Twp. 1,115	Stouff- ville 1,115	Stratford 18,224
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
80,576.26	1,251.57	2,028.78	5,790.86	113,052.86	14,713.82	98,502.21	141,908.22
118,073.40	6,009.16	5,640.37	4,694.69	49,472.34	8,939.74	141,908.22	
149,715.35	27,209.03	27,318.85	855.70	18,111.00	2,473.97	69,600.60	
73,554.95	29,323.07	7,029.74	13,029.18	1,044.92	13,766.46	1,803.15	72,828.71
58,846.22	39,419.45	7,882.41	10,430.15	269.42	4,371.29	851.09	3,864.80
5,187.69	9,042.11	1,057.31	1,878.35	2,527.16			14,257.32
7,482.11			2,527.16	3,919.72	685.08	7,944.69	258.91
19,696.92	Cr 3473.89	364.48	3,919.72	685.08	7,944.69	258.91	14,746.99
56,248.50			927.92		13,743.66	3,866.37	16,150.00
569,381.40	237,978.12	50,803.70	67,700.48	7,549.81	127,914.12	18,193.23	544,911.71
	5,780.82	.30	844.35	945.71	1,414.13	3,449.91	
		7,000.00					
46,843.20	8,017.29	5,387.31	3,043.33	28.61	9,689.34	1,997.84	82,343.88
7,634.03		3,938.22			2,885.24		13,758.03
		7,411.35					76,755.25
66,450.73	5,877.24	18,412.71	6,816.33	584.31	7,856.04	412.13	91,389.52
					1,040.00		
690,309.36	257,653.47	92,953.59	78,404.49	9,108.44	150,798.87	24,053.11	809,158.39
690,309.36	257,653.47	92,953.59	78,404.49	9,108.44	150,798.87	24,053.11	809,158.39
237,288.53	177,383.59	25,000.00	32,890.03	1,203.93	91,998.76	17,724.36	412,000.00
23,931.45	1,091.40	565.00	1,563.19	500.11	5,174.21	1,051.27	35,518.15
33,963.61							1,889.29
9,871.67	9,401.73		3,500.00		1,040.00		
305,055.26	187,876.72	25,565.00	37,953.22	1,704.04	98,212.97	18,775.63	449,407.44
66,450.73	5,877.24	18,412.71	6,816.33	584.31	7,856.04	412.13	91,389.52
75,786.91	15,155.31	15,240.35	11,005.09	137.00	12,669.49	281.00	103,263.71
142,237.64	21,032.55	33,653.06	17,821.42	721.31	20,525.53	693.13	194,653.23
60,711.47	13,184.68		2,544.87	3,796.07	11,001.24	815.91	43,800.00
182,304.99	35,559.52	7,411.35		2,887.02	21,059.13	3,768.44	76,755.25
		26,324.18	20,084.98				44,542.47
243,016.46	48,744.20	33,735.53	22,629.85	6,683.09	32,060.37	4,584.35	165,097.72
690,309.36	257,653.47	92,953.59	78,404.49	9,108.44	150,798.87	24,053.11	809,158.39
48.9	72.9	27.0	53.0	19.9	68.7	79.4	58.6

# STATEMENT

## Balance Sheets of Electrical Departments of

### NIAGARA SYSTEM—Continued

Municipality.....	Strathroy	Sutton	Tavistock	Tecumseh	Thames- ford, P.V.
Population.....	2,642	847	1,027	1,133	
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	1,070.00		234.02		
Substation equipment.....	15,338.85				
Distribution system, overhead.....	29,848.09	15,766.68	9,096.10	20,148.51	5,759.95
Distribution system, underground.....					
Line transformers.....	15,255.71	2,748.85	3,619.96	4,301.75	2,099.67
Meters.....	11,424.96	3,115.94	3,651.85	5,433.65	1,615.25
Street light equipment, regular.....	1,566.10	1,210.72	878.59		176.85
Street light equip., ornamental.....					
Misc. construction expense.....	850.44	1,464.39	628.49	1,262.48	214.02
Steam or hydraulic plant.....					
Old plant.....	12,343.15	675.00			
Total plant.....	87,697.30	24,981.58	18,109.01	31,146.39	9,865.74
Bank and cash balance.....		871.75	806.71		2,882.79
Securities and investments.....			7,343.70		2,000.00
Accounts receivable.....	6,439.45	1,633.48	28.59	1,708.61	787.89
Inventories.....	9,005.47		364.26		
Sinking fund on local debentures.....					
Equity in Hydro systems.....	13,568.44	289.52	5,546.07	1,233.51	3,286.08
Other assets.....		54.10			
Total assets.....	116,710.66	27,830.43	32,198.34	34,088.51	18,822.50
Deficit.....					
Total.....	116,710.66	27,830.43	32,198.34	34,088.51	18,822.50
LIABILITIES					
Debenture balance.....	31,358.53	25,168.30	5,137.62	24,107.38	3,652.66
Accounts payable.....	350.00	304.06	1,310.71	3,917.60	
Bank overdraft.....	1,356.25				
Other liabilities.....					
Total liabilities.....	33,064.78	25,472.36	6,448.33	28,024.98	3,652.66
RESERVES					
For equity in H.E.P.C. systems.....	13,568.44	289.52	5,546.07	1,233.51	3,286.08
For depreciation.....	16,397.44	457.00	2,560.69	1,591.87	2,991.63
Total reserves.....	29,965.88	746.52	8,106.76	2,825.38	6,277.71
SURPLUS					
Debentures paid.....	14,873.47	831.70	862.38	1,892.62	1,705.37
Local sinking fund.....					
Additional operating surplus.....	38,806.53	779.85	16,780.87	1,345.53	7,186.76
Total surplus.....	53,680.00	1,611.55	17,643.25	3,238.15	8,892.13
Total liabilities, reserves & surplus.....	116,710.66	27,830.43	32,198.34	34,088.51	18,822.50
Percentage of net debt to total assets.....	32.0	92.4	24.1	85.2	23.5



## "A"—Continued

## Hydro Municipalities as at December 31, 1924

Thames- ville 785	Thedford 506	Thorn- dale P.V.	Thorold 5,033	Tilbury 1,981	Tillson- burg 3,086	Toronto 529,210	Toronto Twp.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
				969.46	2,224.27	1,741,041.25	
					13,947.52	3,558,216.32	
6,349.80	7,263.34	2,642.60	22,415.56	8,289.37	32,300.80	5,192,854.06	113,578.83
						2,044,796.15	
2,616.60	1,233.74	1,362.40	8,625.45	6,063.41	9,121.48	1,338,772.86	22,065.97
2,871.66	1,669.43	1,108.91	14,946.97	4,518.17	10,806.70	1,850,026.12	15,285.93
342.92	843.20	86.49	1,814.01	398.98	2,782.69	333,763.59	2,087.75
					510.67		
576.75	1,530.81	310.45	4,878.85	1,179.48	989.88	3,020,346.14	732.09
			17,643.54			*3,617,676.22	
4,445.68	433.78			3,049.47		4,563,167.61	619.65
17,203.41	12,974.30	5,510.85	70,324.38	24,468.34	72,684.01	27,260,660.32	154,370.22
1,863.05	539.31	373.23	981.79	2,985.01	4,900.32	718,490.85	
8,000.00	4,500.00			8,000.00	13,000.00	500,000.00	
1,201.29	992.75		8,272.23	3,073.12	9,400.03	1,507,517.99	7,274.80
		29.07			2,138.16	1,096,126.92	
						2,716,769.98	
2,471.62	317.78	2,868.52	5,527.28	5,022.29	18,442.68	2,206,948.50	6,988.17
30,739.37	19,324.14	8,781.67	85,105.68	43,548.76	120,565.20	36,006,514.56	168,633.19
30,739.37	19,324.14	8,781.67	85,105.68	43,548.76	120,565.20	36,005,514.56	168,633.19
8,391.21	15,072.01	2,178.21	4,218.56	11,153.66	20,769.10	22,162,945.90	69,452.83
	108.33	1,059.35	2,174.61	1,266.06	4,973.49	1,272,990.98	1,969.20
							712.02
			1,033.50			957,744.65	591.90
8,391.21	15,180.34	3,237.56	7,426.67	12,419.72	25,742.59	24,393,681.53	72,725.95
2,471.62	317.78	2,868.52	5,527.28	5,022.29	18,442.68	2,206,948.50	6,988.17
3,421.74	451.00	1,308.68	19,359.13	4,249.26	21,705.08	3,849,166.02	31,674.90
5,893.36	768.78	4,177.20	24,886.41	9,271.55	40,147.76	6,056,114.52	38,663.07
2,796.59	1,427.99	908.27	781.44	2,846.34	15,230.90	950,054.10	9,547.17
13,658.21	1,947.03	458.64	52,011.16	19,011.15	39,443.95	2,716,769.98	47,697.00
						1,889,894.43	
16,454.80	3,375.02	1,366.91	52,792.60	21,857.49	54,674.85	5,556,718.51	57,244.17
30,739.37	19,324.14	8,781.67	85,105.68	43,548.76	120,565.20	36,006,514.56	168,633.19
29.6	79.8	54.7	9.3	32.2	25.2	69.7	44.9

\*Work in progress.

# STATEMENT

## Balance Sheets of Electrical Departments of

### NIAGARA SYSTEM—Continued

Municipality.....	Trafalgar Twp.	Vaughan Twp.	Walker- ville 7,469	Wallace- burg 4,530	Wards- ville 195
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....			123,464.63	1,735.58	
Substation equipment.....			74,144.66	2,465.94	
Distribution system, overhead....	16,214.92	3,776.06	66,526.65	38,293.44	4,424.43
Distribution system, underground					
Line transformers.....	5,264.00	3,370.44	44,717.61	22,838.76	601.14
Meters.....	2,377.34	2,540.63	42,076.28	14,457.37	614.85
Street light equipment, regular....		122.54		2,089.26	497.73
Street light equip., ornamental....			69,263.99		
Misc. construction expense.....	1,567.63	517.44	34,882.51	7,223.42	488.73
Steam or hydraulic plant.....					
Old plant.....			18,335.05	19,205.49	193.94
Total plant.....	25,423.89	10,327.11	473,411.38	108,309.26	6,820.82
Bank and cash balance.....	1,635.93	360.33	4,595.35	25,836.43	345.85
Securities and investments.....					1,500.00
Accounts receivable.....	382.11	2,064.25	91,083.27	22,442.46	252.26
Inventories.....			23,244.74	7,619.48	
Sinking fund on local debentures.					
Equity in Hydro systems.....		2,972.37	117,461.26	21,681.79	131.55
Other assets.....					
Total assets.....	27,441.93	15,724.06	709,796.00	185,889.42	9,050.48
Deficit.....					
Total.....	27,441.93	15,724.06	709,796.00	185,889.42	9,050.48
LIABILITIES					
Debenture balance.....	19,426.41	6,544.51	249,902.15	62,320.22	6,870.03
Accounts payable.....	1,533.29		15,302.75	4,566.62	24.00
Bank overdraft.....					
Other liabilities.....			75,900.27	200.00	
Total liabilities.....	20,959.70	6,544.51	341,105.17	67,086.84	6,894.03
RESERVES					
For equity in H.E.P.C. systems....		2,972.37	117,461.26	21,681.79	131.55
For depreciation.....	4,295.80	4,305.62	64,243.73	17,875.19	378.00
Total reserves.....	4,295.80	7,277.99	181,704.99	39,556.98	509.55
SURPLUS					
Debentures paid.....		1,455.49	49,356.85	9,216.36	692.37
Local sinking fund.....					
Additional operating surplus.....	2,186.43	446.07	137,628.99	70,029.24	954.53
Total surplus.....	2,186.43	1,901.56	186,985.84	79,245.60	1,646.90
Total liabilities, reserves & surplus..	27,441.93	15,724.06	709,796.00	185,889.42	9,050.48
Percent of net debt to total assets	76.3	51.3	57.5	40.8	77.2

## "A"—Continued

## Hydro Municipalities as at December 31, 1924

Waterdown 811	Waterford 1,065	Waterloo 6,096	Waterloo Twp.	Watford 1,059	Welland 8,636	Wellesley P.V.	West Lorne 812
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
200.00		13,876.78			28,056.84		
11,328.39	9,839.66	52,218.00	334.38	10,303.67	49,967.64		
		57,582.27			107,902.47	5,483.18	6,975.67
2,004.04	4,148.61	22,979.63	1,015.13	3,196.65	39,101.89	2,153.50	3,356.95
3,656.89	4,062.64	24,021.71	355.49	4,123.41	34,675.69	1,762.85	2,419.73
357.57	1,996.62	6,394.36		609.48	3,955.54	545.11	567.97
112.34	442.53	5,830.72	33.88	1,327.20	10,654.84	128.57	311.16
		2,333.64					
	720.33	24,527.03		657.44	48,939.56		1,250.00
17,659.23	21,210.39	209,764.14	1,738.88	20,217.85	323,254.47	10,073.21	14,881.48
2,721.47	709.37			5,284.25	64,441.96	847.36	1,050.90
5,500.00	6,000.00						7,520.46
2,242.64	442.18	17,191.20		392.36	87,535.41	248.85	961.92
39.00	13.90	3,808.40		205.48	3,591.00		
		4,320.00			43,842.38		
4,865.41	3,808.06	38,099.94	922.70	1,942.02	36,381.59	3,376.79	3,129.68
33,027.75	32,183.90	273,183.68	2,661.58	28,041.96	559,046.81	14,546.21	27,544.44
					38,825.58		
33,027.75	32,183.90	273,183.68	2,661.58	28,041.96	597,872.39	14,546.21	27,544.44
3,561.61		86,354.26		6,771.77	271,970.93	5,482.09	6,998.46
		5,625.64	1,738.88		136,792.77		1,081.95
		2,618.77					
					39,727.67		
3,561.61		94,598.67	1,738.88	6,771.77	448,491.37	5,482.09	8,080.41
4,865.41	3,808.06	38,099.94	922.70	1,942.02	36,381.59	3,376.79	3,129.68
10,612.28	4,228.40	54,273.92		2,461.37	66,127.98	268.00	2,253.65
15,477.69	8,036.46	92,373.86	922.70	4,403.39	102,509.57	3,644.79	5,383.33
4,438.39	7,745.53	19,645.74		2,941.44	3,029.07	2,017.91	1,001.54
		4,320.00			43,842.38		
9,550.06	16,401.91	62,245.41		13,925.36		3,401.42	13,079.16
13,988.45	24,147.44	86,211.15		16,866.80	46,871.45	5,419.33	14,080.70
33,027.75	32,183.90	273,183.68	2,661.58	28,041.96	597,872.39	14,546.21	27,544.44
12.6	....	39.1	100.0	25.9	84.5	49.0	33.0



# STATEMENT

## Balance Sheets of Electrical Departments of

### NIAGARA SYSTEM—Continued

Municipality.....	Weston	Wheatley	Windsor	Wood- bridge 675	Woodstock
Population.....	3,569	647	42,122		10,196
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	3,514.15		170,351.03		29,075.01
Substation equipment.....	17,770.95		312,110.66		59,992.66
Distribution system, overhead....	32,720.48	8,488.91	438,562.95	9,358.82	80,539.75
Distribution system, underground					
Line transformers.....	23,475.36	1,507.91	210,433.51	3,214.32	40,938.99
Meters.....	14,622.07	1,993.45	202,740.78	2,795.31	41,656.11
Street light equipment, regular	6,773.46	526.22	30,129.72	407.26	10,699.09
Street light equip., ornamental...	20,730.78		314,554.22		
Misc. construction expense.....	5,976.66	466.78	95,195.09	642.82	17,314.05
Steam or hydraulic plant.....					14,673.62
Old plant.....		2,569.50	114,609.06		
Total plant.....	125,583.91	15,552.77	1,888,687.02	16,418.53	294,889.28
Bank and cash balance.....	18,582.84	262.98	275.00	594.62	9,437.02
Securities and investments.....				5,000.00	
Accounts receivable.....	6,841.67	899.59	290,068.99	3,256.76	10,619.73
Inventories.....	537.62		128,680.30	146.45	2,351.84
Sinking fund on local debentures.....			61,099.12		27,180.26
Equity in Hydro systems.....	35,081.35	457.32	171,875.62	5,060.55	53,100.49
Other assets.....			1,792.98		643.50
Total assets.....	186,627.39	17,172.66	2,542,479.03	30,476.91	398,222.12
Deficit.....					
Total.....	186,627.39	17,172.66	2,542,479.03	30,476.91	398,222.12
LIABILITIES					
Debenture balance.....	60,185.41	12,627.17	1,277,875.12	7,179.10	85,551.52
Accounts payable.....	4,974.53	1,700.39	82,874.39	851.28	8,540.73
Bank overdraft.....			8,156.76		
Other liabilities.....			337,689.45		2,893.50
Total liabilities.....	65,159.94	14,327.56	1,706,595.72	8,030.38	96,985.75
RESERVES					
For equity in H.E.P.C. systems..	35,081.35	457.32	171,875.62	5,060.55	53,100.49
For depreciation.....	24,008.86		130,539.25	4,133.17	60,995.03
Total reserves.....	59,090.21	457.32	302,414.87	9,193.72	114,095.52
SURPLUS					
Debentures paid.....	9,404.82	372.83	112,124.91	1,320.87	41,834.11
Local sinking fund.....			61,099.12		27,180.26
Additional operating surplus.....	52,972.42	2,014.95	360,244.41	11,931.94	118,126.48
Total surplus.....	62,377.24	2,387.78	533,468.44	13,252.81	187,140.85
Total liabilities, reserves & surplus..	186,627.39	17,172.66	2,542,479.03	30,476.91	398,222.12
Percentage of net debt to total assets	42.9	85.7	71.2	31.5	21.9

## “A”—Continued

## Hydro Municipalities as at December 31, 1924

				GEORGIAN BAY SYSTEM			
Wyoming 503	York Twp.	Zurich P.V.	NIAGARA SYSTEM SUM- MARY	Alliston 1,283	Arthur 1,062	Barrie 7,075	Beaverton 975
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
			3,935,137.07			14,308.21	299.50
			6,253,167.79	675.73		5,615.98	
6,650.35	540,990.80	6,115.81	11,822,423.23	21,264.05	15,877.47	39,831.90	17,040.28
			2,520,796.58			57,991.29	
1,012.00		1,597.49	3,769,916.34	4,965.87	3,826.53	13,556.56	2,677.44
1,620.81		1,637.50	4,337,439.78	5,069.09	2,605.82	29,051.53	3,623.27
275.52	27,503.86	415.04	886,729.09	1,417.38	694.47	5,321.09	688.47
			667,828.73			4,863.39	
805.20	16,872.79	250.77	3,856,749.76	2,537.92	255.62	1,000.00	2,228.57
			3,652,327.02				
		150.00	5,282,729.63	8,146.49	1,101.47	41,582.61	3,772.42
10,363.88	585,367.45	10,166.61	46,985,245.02	44,076.53	24,361.38	213,122.56	30,329.95
344.01			1,404,491.89	9.17	110.34		3,017.19
		4,000.00	863,409.93			13,632.24	
170.58	49,862.89	229.12	3,490,989.34	278.42		9,725.33	3,768.09
			1,620,295.07			1,375.66	355.00
			3,781,049.63				
1,390.33		1,503.89	5,157,979.93	507.07	4,437.81	14,348.12	3,526.17
	154.71		240,249.64				
12,268.80	635,385.05	15,899.62	63,543,710.45	44,871.19	28,909.53	252,203.91	40,996.40
687.44			49,380.70	2,188.33	14,169.81		
12,956.24	635,385.05	15,899.62	63,593,091.15	47,059.52	43,079.34	252,203.91	40,996.40
7,036.25	382,691.06	5,023.51	34,091,346.22	35,891.02	18,694.34	24,487.48	12,161.68
	168,805.40		2,825,493.22	434.93	11,984.00	1,777.98	448.14
	2,451.94	470.00	145,852.72			9,788.05	
			1,721,246.39			700.00	
7,036.25	553,948.40	5,493.51	38,783,938.55	36,325.95	30,678.34	36,753.51	12,609.82
1,390.33		1,503.89	5,157,979.93	507.07	4,437.81	14,348.12	3,526.17
1,865.91	35,383.91	1,475.42	6,890,526.45	6,117.52	5,657.53	32,243.40	4,511.57
3,256.24	35,383.91	2,979.31	12,048,506.38	6,624.59	10,095.34	46,591.52	8,037.74
2,663.75	17,308.94	568.10	2,696,307.72	4,108.98	2,305.66	62,512.52	2,838.32
	28,743.80	6,858.70	3,781,049.63			106,346.36	17,510.52
			6,283,288.87				
2,663.75	46,052.74	7,426.80	12,760,646.22	4,108.98	2,305.66	168,858.88	20,348.84
12,956.24	635,385.05	15,899.62	63,593,091.15	47,059.52	43,079.34	252,203.91	40,996.40
64.6	87.2	38.1	64.1	81.9	125.3	10.9	33.7

# STATEMENT

## Balance Sheets of Electrical Departments of

### GEORGIAN BAY SYSTEM—Continued

Municipality.....	Beeton	Bradford	Brechin P.V.	Canning- ton 924	Chats- worth 284
Population.....	578	995			
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....					65.00
Substation equipment.....	428.50	388.50			
Distribution system, overhead....	11,130.67	15,120.95	1,531.32	8,517.40	3,821.67
Distribution system, underground					
Line transformers.....	1,893.20	1,362.34	936.80	2,465.25	667.69
Meters.....	1,323.08	2,400.23	451.37	3,147.75	832.42
Street light equipment, regular...	1,138.14	544.95	118.36	583.37	309.78
Street light equip., ornamental...					
Misc. construction expense.....	1,432.19	1,691.36	546.92	559.63	385.90
Steam or hydraulic plant.....					
Old plant.....				3,609.37	
Total plant.....	17,345.78	21,508.33	3,584.77	18,882.77	6,082.46
Bank and cash balance.....	66.83	550.35	520.70	960.91	1,087.55
Securities and investments.....					
Accounts receivable.....	551.42	1,050.09	464.43	2,841.85	519.36
Inventories.....	10.50			463.04	
Sinking fund on local debentures.					1,420.14
Equity in Hydro systems.....	373.04	75.11	1,987.59	2,880.94	863.44
Other assets.....					
Total assets.....	18,347.57	23,183.88	6,557.49	26,029.51	9,972.95
Deficit.....	2,860.99	5,992.71	2,204.50		
Total.....	21,208.56	29,176.59	8,761.99	26,029.51	9,972.95
LIABILITIES					
Debenture balance.....	13,464.32	17,722.64	2,877.35	12,386.35	5,185.41
Accounts payable.....	3,233.11	6,379.76	2,672.67		
Bank overdraft.....					
Other liabilities.....					
Total liabilities.....	16,697.43	24,102.40	5,550.02	12,386.35	5,185.41
RESERVES					
For equity in H.E.P.C. systems..	373.04	75.11	1,987.59	2,880.94	863.44
For depreciation.....	2,602.41	3,521.72	890.81	3,661.63	1,406.57
Total reserves.....	2,975.45	3,596.83	2,878.40	6,542.57	2,270.01
SURPLUS					
Debentures paid.....	1,535.68	1,477.36	333.57	2,613.65	214.59
Local sinking fund.....					1,420.14
Additional operating surplus.....				4,486.94	882.80
Total surplus.....	1,535.68	1,477.36	333.57	7,100.59	2,517.53
Total liabilities, reserves & surplus..	21,208.56	29,176.59	8,761.99	26,029.51	9,972.95
Percentage of net debt to total assets	94.4	104.3	121.4	53.5	48.9



## "A"—Continued

## Hydro Municipalities as at December 31, 1924

Chesley 1,746	Coldwater 595	Colling- wood 6,004	Cookstown P.V.	Creemore 630	Derby Twp.	Dundalk 727	Durham 1,640
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
595.98	275.00	13,018.17	60.00				584.88
17,653.72	6,617.73	11,213.24	392.95				
		40,309.27	8,641.78	5,500.00	217.37	6,280.81	16,570.77
4,141.66	2,810.07	12,464.98	1,811.45	1,318.57	73.32	2,063.00	5,483.08
5,080.58	1,997.24	19,140.73	1,254.57	1,996.72	32.05	1,620.75	3,749.97
1,017.36	372.82	2,750.86	514.21	272.07		666.39	1,072.87
3,360.16	132.53	8,494.15	1,499.15	185.41	14.68	228.69	1,044.51
5,503.60		473.20		2,651.15		380.94	1,506.51
37,353.06	12,205.39	107,864.60	14,174.11	11,923.92	337.42	11,240.58	30,012.59
717.88	6,848.08	10,581.40	1,257.69	4,476.36			5,723.84
		25,000.00	1,000.00	5,000.00		4,000.00	8,000.00
6,179.12	1,178.22	12,650.58	874.92	81.80		1,573.18	3,885.61
100.00		823.94		5.76		2.54	
5,559.00	1,819.73	32,826.08	237.45	2,173.61		2,159.53	5,826.89
49,909.06	22,051.42	189,746.60	17,544.17	23,661.45	337.42	18,975.83	53,448.93
			123.04				
49,909.06	22,051.42	189,746.60	17,667.21	23,661.45	337.42	18,975.83	53,448.93
19,138.89	5,590.62	17,331.65	11,936.32	4,171.06		3,387.61	18,509.70
	280.94	3,668.22	1,517.76	43.23	337.42	240.00	1,573.22
		1,198.94				79.69	
19,138.89	5,871.56	22,198.81	13,454.08	4,214.29	337.42	3,707.30	20,082.92
5,559.00	1,819.73	32,826.08	237.45	2,173.61		2,159.53	5,826.89
6,804.43	4,572.12	30,739.43	2,412.00	2,678.16		2,437.78	5,422.81
12,363.43	6,391.85	63,565.51	2,649.45	4,851.77		4,597.31	11,249.70
8,361.11	1,409.38	25,272.94	1,563.68	2,328.94		2,949.29	7,290.30
10,045.63	8,378.63	78,709.34		12,266.45		7,721.93	14,826.01
18,406.74	9,788.01	103,982.28	1,563.68	14,595.39		10,671.22	22,116.31
49,909.06	22,051.42	189,746.60	17,667.21	23,661.45	337.42	18,975.83	53,448.93
43.2	29.0	14.1	77.7	19.6	100.0	22.0	42.2

# STATEMENT

## Balance Sheets of Electrical Departments of

### GEORGIAN BAY SYSTEM—Continued

Municipality.....	Elmvale	Elmwood	Flesherton	Grand Valley	Hanover
Population.....	P.V.	P.V.	420	616	2,714
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....	106.25			36.50	2,648.36
Substation equipment.....					9,271.19
Distribution system, overhead....	6,976.98	4,683.38	4,682.18	9,553.60	45,333.15
Distribution system, underground					
Line transformers.....	2,652.64	803.88	324.62	1,229.29	13,956.23
Meters.....	2,238.67	696.57	911.55	1,991.00	12,239.34
Street light equipment, regular...	349.02	302.28	384.61	458.21	2,291.18
Street light equip., ornamental....					
Misc. construction expense.....	455.93	1,093.62	887.26	205.70	6,398.62
Steam or hydraulic plant.....					
Old plant.....				919.85	2,370.91
Total plant.....	12,779.49	7,579.73	7,190.22	14,394.15	94,508.98
Bank and cash balance.....	1,384.73	1,196.25		553.83	5,891.49
Securities and investments.....	5,000.00			4,150.50	
Accounts receivable.....	689.66		1,192.63	350.21	16,685.67
Inventories.....	115.07				612.31
Sinking fund on local debentures.		174.72			
Equity in Hydro systems.....	2,892.36	379.03	1,210.44	1,999.57	18,964.92
Other assets.....					
Total assets.....	22,861.31	9,329.73	9,593.29	21,448.26	136,663.37
Deficit.....		523.18	431.41		
Total.....	22,861.31	9,852.91	10,024.70	21,448.26	136,663.37
<b>LIABILITIES</b>					
Debenture balance.....	5,322.96	5,696.64	5,641.14	8,040.36	72,054.36
Accounts payable.....	128.14	1,036.12	177.74	680.23	130.16
Bank overdraft.....			33.00		
Other liabilities.....					
Total liabilities.....	5,451.10	6,732.76	5,851.88	8,720.59	72,184.52
<b>RESERVES</b>					
For equity in H.E.P.C. systems..	2,892.36	379.03	1,210.44	1,999.57	18,964.92
For depreciation.....	4,310.49	1,063.04	1,903.52	2,891.55	14,657.60
Total reserves.....	7,202.85	1,442.07	3,113.96	4,891.12	33,622.52
<b>SURPLUS</b>					
Debentures paid.....	1,677.04	1,503.36	1,058.86	2,959.64	15,445.64
Local sinking fund.....		174.72			
Additional operating surplus.....	8,530.32			4,876.91	15,410.69
Total surplus.....	10,207.36	1,678.08	1,058.86	7,836.55	30,856.33
Total liabilities, reserves & surplus..	22,861.31	9,852.91	10,024.70	21,448.26	136,663.37
Percentage of net debt to total assets	27.8	74.7	69.8	44.8	61.3

## "A"—Continued

## Hydro Municipalities as at December 31, 1924

Holstein P.V.	Kincardine 2,113	Kirkfield P.V.	Lucknow 917	Markdale 865	Meaford 2,653	Midland 7,157	Mount Forest 1,734
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	4,493.41	.....	.....	.....	1,102.93	10,864.80	3,725.00
.....	2,794.20	.....	.....	780.80	2,484.99	45,644.94	764.51
2,054.15	35,114.33	5,041.33	14,416.02	7,536.73	24,607.60	78,876.87	18,453.07
455.22	6,361.24	571.00	2,084.04	2,108.87	5,229.65	15,166.07	3,683.70
400.52	6,368.88	404.95	2,461.00	1,961.20	4,977.50	27,804.12	4,654.22
168.69	3,791.43	379.00	1,040.95	756.51	2,153.83	5,434.52	1,990.81
181.03	5,595.95	301.53	2,099.08	549.06	2,208.84	7,965.91	2,048.28
.....	.....	.....	.....	2,080.65	3,272.08	14,515.62	.....
.....	.....	.....	.....	.....	.....	.....	3,958.97
3,259.61	64,519.44	6,697.81	22,101.09	15,773.82	46,037.42	206,272.85	39,278.56
608.55	288.71	333.44	703.32	542.52	10,567.81	8,756.35	614.18
.....	.....	.....	2,000.00	1,000.00	.....	.....	3,887.83
277.33	481.11	546.93	381.21	1,232.46	3,364.38	29,280.23	348.94
45.60	1,483.87	16.48	.....	311.72	.....	6,702.95	79.56
679.63	.....	.....	.....	1,345.72	.....	27,694.48	5,759.89
.....	.....	.....	.....	.....	.....	.....	.....
4,870.72	66,773.13	7,594.66	25,185.62	20,206.24	59,969.61	278,706.86	49,968.96
4,411.78	8,296.99	.....	.....	.....	.....	.....	.....
9,282.50	75,070.12	7,594.66	25,185.62	20,206.24	59,969.61	278,706.86	49,968.96
1,793.60	54,064.43	5,286.50	17,806.05	7,692.19	49,360.20	73,604.51	20,561.11
5,277.41	7,710.31	807.38	1,396.11	435.10	.....	11,548.88	792.49
.....	.....	.....	.....	.....	.....	.....	.....
7,071.01	61,774.74	6,093.88	19,202.16	8,127.29	49,360.20	85,153.39	21,353.60
679.63	.....	.....	.....	1,345.72	.....	27,694.48	5,759.89
563.41	3,159.81	661.00	1,197.00	3,153.87	811.00	42,814.98	7,461.80
1,243.04	3,159.81	661.00	1,197.00	4,499.59	811.00	70,509.46	13,221.69
963.45	10,135.57	713.50	1,917.31	1,307.81	.....	38,465.48	10,397.49
.....	.....	126.28	2,869.15	6,271.55	9,798.41	84,578.53	4,996.18
968.45	10,135.57	839.78	4,786.46	7,579.36	9,798.41	123,044.01	15,393.67
9,282.50	75,070.12	7,594.66	25,185.62	20,206.24	59,969.61	278,706.86	49,968.96
168.7	92.5	80.2	76.2	43.1	82.3	33.9	48.3



# STATEMENT

## Balance Sheets of Electrical Departments of

### GEORGIAN BAY SYSTEM—Continued

Municipality.....	Neustadt	Orange- ville	Owen Sound	Paisley	Penetang- uishene
Population.....	452	2,611	12,218	735	3,945
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		2,548.95	28,953.74		2,151.00
Substation equipment.....		1,169.00	11,401.18		4,040.66
Distribution system, overhead....	9,716.32	22,827.17	77,069.32	9,802.30	36,439.99
Distribution system, underground					
Line transformers.....	4,243.29	3,702.43	30,418.52	1,155.68	13,338.66
Meters.....	1,695.45	6,008.88	42,624.22	1,946.60	11,127.72
Street light equipment, regular	496.41	1,149.67	11,111.25	1,017.86	2,464.90
Street light equip., ornamental....			500.00		
Misc. construction expense.....	1,495.88	3,406.09	2,036.30	650.40	2,368.02
Steam or hydraulic plant.....			33,282.00		
Old plant.....	1,097.60	3,204.99		1,745.00	2,124.20
Total plant.....	18,744.95	44,017.18	237,396.53	16,317.84	74,055.15
Bank and cash balance.....		111.29		1,097.82	20,109.83
Securities and investments.....					
Accounts receivable.....	972.22	537.78	17,615.68	1,803.72	3,810.52
Inventories.....	51.37	526.04	11,352.24		1,100.93
Sinking fund on local debentures..			75,231.09		
Equity in Hydro systems.....	1,070.88	5,038.85	30,353.20		18,510.21
Other assets.....			2,315.96		
Total assets.....	20,839.42	50,231.14	374,264.70	19,219.38	117,586.64
Deficit.....	4,627.96	3,871.66			
Total.....	25,467.38	54,102.80	374,264.70	19,219.38	117,586.64
LIABILITIES					
Debenture balance.....	14,023.71	25,706.53	95,000.00	15,541.13	30,109.61
Accounts payable.....	4,642.25	4,465.75	6,421.42	27.02	
Bank overdraft.....	113.75		2,688.16		
Other liabilities.....			2,108.99		
Total liabilities.....	18,779.71	30,172.28	106,218.57	15,568.15	30,109.61
RESERVES					
For equity in H.E.P.C. systems..	1,070.88	5,038.85	30,353.20		18,510.21
For depreciation.....	2,640.50	8,698.20	37,199.50	273.00	22,214.17
Total reserves.....	3,711.38	13,737.05	67,552.70	273.00	40,724.38
SURPLUS					
Debentures paid.....	2,976.29	10,193.47	46,000.00	458.87	10,890.39
Local sinking fund.....			75,231.09		
Additional operating surplus.....			79,262.34	2,919.36	35,862.26
Total surplus.....	2,976.29	10,193.47	200,493.43	3,378.23	46,752.65
Total liabilities, reserves & surplus..	25,467.38	54,102.80	374,264.70	19,219.38	117,586.64
Percentage of net debt to total assets	95.0	66.7	11.5	81.0	30.4

## "A"—Continued

## Hydro Municipalities as at December 31, 1924

Port McNicoll 650	Port Perry 1,115	Priceville P.V.	Ripley P.V.	Shel- burne 1,093	Stayner 1,030	Sunderland P.V.	Tara 502
\$ c. 202.60	\$ c. 68.00	\$ c. 800.00	\$ c. 566.60	\$ c. 200.00	\$ c. 1,454.65	\$ c. 1,706.89	\$ c. 1,224.13
6,279.95	15,130.27	4,625.00	8,778.58	12,993.21	9,577.50	3,453.21	10,275.23
693.42	1,996.40	549.70	2,592.36	3,251.98	3,274.29	1,454.65	1,706.89
1,446.23	2,903.33	318.25	640.91	3,715.34	3,466.62	1,594.02	1,224.13
190.73	397.89	139.88	850.83	971.65	790.02	240.33	430.59
496.42	54.78	833.90	1,164.99	2,189.46	310.33	142.22	1,243.96
				739.50	4,132.41	2,030.00	
9,309.35	20,482.67	6,534.73	14,027.67	25,227.74	21,751.17	8,914.43	14,880.80
1,050.06	1,463.66	31.66	428.49	2,803.39	4,399.85	754.54	1,702.46
	5,000.00				4,000.00		
195.70	2,515.56		49.54	3,132.65	497.16	402.83	369.53
11.96					67.03		13.97
693.56				3,192.74	2,968.98	2,580.37	743.87
				360.51			
11,260.63	29,461.89	6,566.39	14,505.70	34,717.03	33,684.19	12,652.17	17,710.63
		1,553.11	938.62				6,447.12
11,260.63	29,461.89	8,119.50	15,444.32	34,717.03	33,684.19	12,652.17	24,157.75
5,548.55	19,881.66	5,998.31	13,141.92	14,135.03	8,992.13	5,331.41	12,725.55
171.25	60.00	772.50	727.38	1,072.08	593.09	1,228.01	5,348.63
5,719.80	19,941.66	6,770.81	13,869.30	15,207.11	9,585.22	6,559.42	18,074.18
693.56				3,192.74	2,968.98	2,580.37	743.87
1,884.00	798.00	347.00	745.00	4,991.19	4,719.58	1,717.12	2,565.25
2,577.56	798.00	347.00	745.00	8,183.93	7,688.56	4,297.49	3,309.12
1,751.45		1,001.69	830.02	5,784.97	5,007.87	1,468.59	2,774.45
1,211.82	8,722.23			5,541.02	11,402.54	326.67	
2,963.27	8,722.23	1,001.69	830.02	11,325.99	16,410.41	1,795.26	2,774.45
11,260.63	29,461.89	8,119.50	15,444.32	34,717.03	33,684.19	12,652.17	24,157.75
54.1	67.7	103.1	95.6	48.2	31.2	65.1	106.5

# STATEMENT

## Balance Sheets of Electrical Departments of

### GEORGIAN BAY SYSTEM—Continued

Municipality.....	Teeswater	Thornton P.V.	Tottenham	Uxbridge	Victoria Harbour
Population.....	813		519	1,453	1,453
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....					
Substation equipment.....	330.31		358.50		
Distribution system, overhead....	14,200.65	6,208.37	7,836.91	10,716.61	6,917.09
Distribution system, underground					
Line transformers.....	2,686.57	744.86	1,117.48	2,395.73	991.50
Meters.....	2,124.39	457.41	1,570.42	2,390.91	2,109.12
Street light equipment, regular...	1,297.97	375.90	460.17	1,187.43	298.17
Street light equip., ornamental...					
Misc. construction expense.....	1,727.00	300.35	1,346.93	793.42	642.64
Steam or hydraulic plant.....					
Old plant.....	4,976.86		361.45		
Total plant.....	27,343.75	8,086.89	13,051.86	17,484.10	10,958.52
Bank and cash balance.....		372.16	1,306.71	286.40	3,224.44
Securities and investments.....				6,000.00	
Accounts receivable.....	840.11		104.24	2,774.42	86.14
Inventories.....				18.00	
Sinking fund on local debentures.	3,314.55				
Equity in Hydro systems.....		169.81	63.82		1,064.92
Other assets.....				50.00	
Total assets.....	31,498.41	8,628.86	14,526.63	26,612.92	15,334.02
Deficit.....	1,709.80	3,670.23	3,758.26		
Total.....	33,208.21	12,299.09	18,284.89	26,612.92	15,334.02
LIABILITIES					
Debenture balance.....	26,187.19	6,453.76	7,904.06	16,207.59	4,401.70
Accounts payable.....	556.81	3,170.28	6,021.15		210.00
Bank overdraft.....	682.93				
Other liabilities.....					
Total liabilities.....	27,426.93	9,624.04	13,925.21	16,207.59	4,611.70
RESERVES					
For equity in H.E.P.C. systems...		169.81	63.82		1,064.92
For depreciation.....	653.92	1,459.00	1,732.82	650.00	2,288.37
Total reserves.....	653.92	1,628.81	1,796.64	650.00	3,353.29
SURPLUS					
Debentures paid.....	1,812.81	1,046.24	2,563.04		2,098.30
Local sinking fund.....	3,314.55				
Additional operating surplus.....				9,755.33	5,270.73
Total surplus.....	5,127.36	1,046.24	2,563.04	9,755.33	7,369.03
Total liabilities, reserves & surplus..	33,208.21	12,299.09	18,284.89	26,612.92	15,334.02
Percentage of net debt to total assets	85.5	113.7	96.3	60.9	32.3



## "A"—Continued

## Hydro Municipalities as of December 31, 1924

				MUSKOKA SYSTEM		
Waubau- shene P.V.	Wingham 2,440	Woodville 458	GEORGIAN BAY SYSTEM SUMMARY	Gravenhurst 1,609	Huntsville 2,286	MUSKOKA SYSTEM SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	8,508.05	.....	94,235.47	12,952.29	326.49	13,278.78
.....	4,830.84	.....	104,533.48	12,772.68	647.30	13,419.98
3,624.64	30,287.55	2,187.60	802,204.02	27,899.02	11,743.35	39,642.37
.....	.....	.....	57,991.29	.....	.....	.....
684.19	12,139.54	1,033.77	207,316.17	1,853.29	3,609.60	5,462.89
1,142.37	8,341.61	1,406.08	248,740.70	5,421.18	5,905.23	11,326.41
164.14	3,107.97	127.31	64,254.70	695.45	1,178.85	1,874.30
.....	.....	.....	5,363.39	.....	.....	.....
257.66	3,736.12	251.91	81,036.98	1,679.50	594.92	2,274.42
.....	13,200.00	.....	60,997.62	.....	.....	.....
.....	12,551.68	2,182.50	116,476.41	7,610.69	5,436.20	13,046.89
5,873.00	96,703.36	7,189.17	1,843,150.23	70,884.10	29,441.94	100,326.04
2,413.97	30.00	1,772.52	110,728.72	2,776.09	9,563.89	12,339.98
.....	5,000.00	.....	92,670.57	.....	.....	.....
50.29	5,887.21	2,063.27	144,161.75	5,130.34	288.76	5,419.10
.....	2,298.34	20.80	27,964.68	1,727.69	2,588.66	4,316.35
.....	.....	.....	80,140.50	3,804.96	.....	3,804.96
545.23	.....	2,646.60	210,170.66	3,199.03	9,615.48	12,814.51
.....	.....	.....	2,726.47	.....	.....	.....
8,882.49	109,918.91	13,692.36	2,511,713.58	87,522.21	51,498.73	139,020.94
.....	.....	.....	67,779.50	.....	.....	.....
8,882.49	109,918.91	13,692.36	2,579,493.08	87,522.21	51,498.73	139,020.94
2,406.64	66,258.27	4,503.31	950,318.55	32,155.78	13,553.03	45,708.81
246.68	628.25	213.65	101,287.65	798.86	1,940.89	2,739.75
.....	31.72	.....	13,417.30	.....	.....	.....
.....	15.00	.....	4,022.93	.....	.....	.....
2,653.32	66,933.24	4,716.96	1,069,046.43	32,954.64	15,493.92	48,448.56
545.23	.....	2,646.60	210,170.66	3,199.03	9,615.48	12,814.51
1,171.51	6,983.42	1,111.90	305,172.41	12,913.85	5,616.61	18,530.46
1,716.74	6,983.42	3,758.50	515,343.07	16,112.88	15,232.09	31,344.97
1,093.36	29,847.23	996.69	342,261.85	31,812.66	7,580.51	39,393.17
.....	.....	.....	80,140.50	3,804.96	.....	3,804.96
3,419.07	6,155.02	4,220.21	572,701.23	2,837.07	13,192.21	16,029.28
4,512.43	36,002.25	5,216.90	995,103.58	38,454.69	20,772.72	59,227.41
8,882.49	109,918.91	13,692.36	2,579,493.08	87,522.21	51,498.73	139,020.94
31.8	60.9	42.7	44.5	36.2	37.0	36.5

# STATEMENT

## Balance Sheets of Electrical Departments of

### ST. LAWRENCE SYSTEM

Municipality.....	Alexandria	Apple Hill P.V.	Brockville	Chester- ville 865	Lancaster
Population.....	2,255		9,384	865	601
<b>ASSETS</b>	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	202.00	169.06	27,994.53	250.00	
Substation equipment.....	25,364.32	2,733.78	64,539.81	6,507.28	6,092.85
Distribution system, overhead....					
Distribution system, underground	6,703.61	1,165.70	22,602.38	2,195.32	1,064.35
Line transformers.....	5,569.95	683.95	30,568.81	2,762.93	1,147.03
Meters.....	2,014.34	398.97	15,957.28	328.57	575.05
Street light equipment, regular...					
Street light equip., ornamental...	5,435.33	192.84	5,374.54	610.68	1,053.60
Misc. construction expense.....	4,466.89	709.55	52,997.94		
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	49,756.44	6,053.85	220,035.29	12,654.78	9,932.88
Bank and cash balance.....	272.05	133.19	13,830.62	4,112.96	352.54
Securities and investments.....			56,606.50		
Accounts receivable.....	1,615.43	225.06	20,818.12	2,680.50	98.92
Inventories.....	97.17		3,045.21	1,261.41	
Sinking fund on local debentures.			73,260.14		
Equity in Hydro systems.....			19,844.37	6,302.13	
Other assets.....			248.58		
Total assets.....	51,741.09	6,412.10	407,688.83	27,011.78	10,384.34
Deficit.....	352.61	146.32			6,773.55
Total.....	52,093.70	6,558.42	407,688.83	27,011.78	17,157.89
<b>LIABILITIES</b>					
Debenture balance.....	38,960.24	5,511.29	155,189.49	4,538.38	8,424.42
Accounts payable.....	2,736.07	255.42	2,046.40		6,645.47
Bank overdraft.....					
Other liabilities.....	90.00			960.00	
Total liabilities.....	41,786.31	5,766.71	157,235.89	5,498.38	15,069.89
<b>RESERVES</b>					
For equity in H.E.P.C. systems...			19,844.37	6,302.13	
For depreciation.....	2,133.79	303.00	18,924.00	3,850.82	542.00
Total reserves.....	2,133.79	303.00	38,768.37	10,152.95	542.00
<b>SURPLUS</b>					
Debentures paid.....	8,173.60	488.71	71,468.05	1,961.62	1,546.00
Local sinking fund.....			73,260.14		
Additional operating surplus.....			66,956.38	9,398.83	
Total surplus.....	8,173.60	488.71	211,684.57	11,360.45	1,546.00
Total liabilities, reserves & surplus..	52,093.70	6,558.42	407,688.83	27,011.78	17,157.89
Percentage of net debt to total assets	80.7	86.4	26.7	26.5	145.1

## "A"—Continued

## Hydro Municipalities as at December 31, 1924

Martintown P.V.	Maxville 763	Prescott 2,597	Williamsburg P.V.	Winchester 1,090	ST. LAWRENCE SYSTEM SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
126.15	407.79	2,761.54	299.85	31,803.13	407.79
2,523.11	10,912.55	31,247.21	1,608.59	7,986.43	159,515.93
690.33	1,732.20	8,413.04	297.89	1,362.39	46,227.21
585.75	2,263.32	10,992.91	772.22	3,045.42	58,392.29
335.26	1,379.56	1,649.64	152.11	564.98	23,355.76
653.27	2,414.49	1,551.68	4.00	343.94	17,634.37
		12,108.35		1,100.00	71,382.73
4,913.87	19,109.91	68,724.37	2,834.81	14,703.01	408,719.21
		669.15	1,482.21	9,363.02	30,215.74
1,000.00		7,000.00			64,606.50
78.93	229.85	10,319.15	81.91	2,965.14	39,113.01
		3,512.75		1,759.86	6,163.65
		4,767.13	464.64	2,976.78	76,772.89
					34,355.05
					248.58
5,992.80	19,339.76	94,992.55	4,863.57	31,767.81	660,194.63
271.93	2,213.44				9,757.85
6,264.73	21,553.20	94,992.55	4,863.57	31,767.81	669,952.48
5,286.49	14,007.47	15,286.56	1,703.83	8,876.28	257,784.45
17.50	3,368.76	1,236.66	14.73	1,483.17	17,804.18
23	1,314.65				1,314.88
					1,050.00
5,304.22	18,690.88	16,523.22	1,718.56	10,359.45	277,953.51
		4,767.13	464.64	2,976.78	34,355.05
247.00	869.79	18,474.00	874.90	4,105.82	50,325.12
247.00	869.79	23,241.13	1,339.54	7,082.60	84,680.17
713.51	1,992.53	8,692.78	1,046.17	1,773.72	97,856.69
		3,512.75			76,772.89
		43,022.67	759.30	12,552.04	132,689.22
713.51	1,992.53	55,228.20	1,805.47	14,325.76	307,318.80
6,264.73	21,553.20	94,992.55	4,863.57	31,767.81	669,952.48
90.0	96.6	15.0	39.0	36.0	36.6



# STATEMENT

## Balance Sheets of Electrical Departments of

### RIDEAU SYSTEM

Municipality.....	Carleton Place 4,254	Kempt- ville 1,175	Lanark 591	Perth 3,710	Smiths Falls 6,592
Population.....					
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....	5,688.32			6,600.50	20,388.10
Substation equipment.....	2,471.63			3,492.82	4,845.66
Distribution system, overhead....	28,363.40	16,458.09	4,867.28	34,857.12	67,800.86
Distribution system, underground					
Line transformers.....	10,258.06	3,724.33	639.33	15,496.86	16,986.95
Meters.....	12,069.39	3,539.81	1,049.47	15,702.96	23,463.47
Street light equipment, regular	887.81	998.18	633.84	2,642.35	2,097.05
Street light equip., ornamental					
Misc. construction expense.....	8,457.03	5,493.38	276.12	5,206.93	7,085.25
Steam or hydraulic plant.....				23,395.26	38,251.49
Old plant.....				2,674.25	21,443.20
Total plant.....	68,195.64	30,213.79	7,466.04	110,069.05	202,362.03
Bank and cash balance.....	9,470.13	6,107.64	2,344.54	75.00	6,234.63
Securities and investments.....		5,000.00			15,000.00
Accounts receivable.....	9,029.52	1,541.33	240.50	41,165.51	2,205.13
Inventories.....	1,204.40	412.23		7,505.06	568.74
Sinking fund on local debentures.					
Equity in Hydro systems.....					5,247.43
Other assets.....					532.95
Total assets.....	87,899.69	43,274.99	10,051.08	158,814.62	232,150.91
Deficit.....					3,756.63
Total.....	87,899.69	43,274.99	10,051.08	158,814.62	235,907.54
<b>LIABILITIES</b>					
Debenture balance.....	61,014.90	23,616.67	6,782.56	100,817.44	158,384.60
Accounts payable.....	1,034.13	1,896.22		2,210.37	1,787.51
Bank overdraft.....				1,023.20	
Other liabilities.....	185.64				
Total liabilities.....	62,234.67	25,512.89	6,782.56	104,051.01	160,172.11
<b>RESERVES</b>					
For equity in H.E.P.C. systems..					5,247.43
For depreciation.....	9,695.36	1,448.00	329.02	14,885.03	31,247.60
Total reserves.....	9,695.36	1,448.00	329.02	14,885.03	36,495.03
<b>SURPLUS</b>					
Debentures paid.....	4,985.10	1,383.33	778.91	7,582.56	39,240.40
Local sinking fund.....					
Additional operating surplus.....	10,984.56	14,930.77	2,160.59	32,296.02	
Total surplus.....	15,969.66	16,314.10	2,939.50	39,878.58	39,240.40
Total liabilities, reserves & surplus..	87,899.69	43,274.99	10,051.08	158,814.62	235,907.54
Percentage of net debt to total assets	70.8	58.9	67.5	66.2	70.6

## “A”—Continued

## Hydro Municipalities as at December 31, 1924

	THUNDER BAY SYSTEM	OTTAWA SYSTEM	TRENT SYSTEM				
RIDEAU SYSTEM SUMMARY	Port Arthur 15,681	Ottawa 116,205	Bloomfield 625	Havelock 1,255	Kingston 21,975	Lakefield 1,250	Marmora 794
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
32,676.92	67,256.15	197,912.77			109,130.94	86.89	
10,810.11	89,588.32	241,579.87		572.90			
152,346.75	286,824.05	494,591.88	7,333.93	17,957.88	113,501.21	18,085.62	11,861.71
		239,298.90			55,359.36		
47,105.53	31,614.25	200,515.51	1,119.31	2,054.41	42,447.96	2,519.11	1,488.30
55,825.10	58,289.07	190,100.15	1,874.05	4,773.57	75,398.25	4,683.37	2,373.78
7,259.23	31,286.22	62,682.61	622.90	1,801.28	12,737.14	1,464.21	1,088.59
		29,978.05			25,127.91		
26,518.71	27,312.55	33,197.05	1,403.42	4,682.33	43,826.18	3,337.14	2,000.91
61,646.75	348,096.93				73,735.13		
24,117.45				2,420.45	42,180.11	3,445.25	573.62
418,306.55	940,267.54	1689,856.79	12,353.61	34,262.82	593,444.19	33,621.59	19,386.91
24,231.94	61,832.61	19,677.78	1,124.12	1,767.94	21,133.25	9,470.97	2,366.79
20,000.00	265,935.58						
54,181.99	65,778.48	46,591.62	1,414.16	1,311.78	14,098.76	1,035.86	2,578.90
9,690.43	29,030.92	23,811.88			9,968.57		
	153,906.53	311,254.93			54,942.59		
5,247.43							
532.95	874.34	60.00					
532,191.29	1517,626.00	2091,253.00	14,891.89	37,342.54	693,587.36	44,128.42	24,332.60
3,756.63							
535,947.92	1517,626.00	2091,253.00	14,891.89	37,342.54	693,587.36	44,128.42	24,332.60
350,616.17	442,776.16	972,056.38	10,113.62	29,239.16	252,217.49	31,790.71	15,154.67
6,928.23	95,296.71	45,097.41	23.13			259.14	39.17
1,023.20							
185.64	7,927.51						
358,753.24	547,000.38	1017,153.79	10,136.75	29,239.16	252,217.49	32,049.85	15,193.84
5,247.43							
57,605.01	175,821.44	496,397.17	1,482.00	1,512.85	37,591.42	2,525.54	744.17
62,852.44	175,821.44	496,397.17	1,482.00	1,512.85	37,591.42	2,525.54	744.17
53,970.30	193,323.84	7,943.62	1,086.38	3,660.84	59,682.50	1,709.29	2,511.44
	153,906.53	311,254.93			54,942.59		
60,371.94	447,573.81	258,503.49	2,186.76	2,929.69	289,153.36	7,843.74	5,883.15
114,342.24	794,804.18	577,702.04	3,273.14	6,590.53	403,778.45	9,553.03	8,394.59
535,947.92	1517,626.00	2091,253.00	14,891.89	37,342.54	693,587.36	44,128.42	24,332.60
68.1	28.8	39.7	68.1	78.3	30.9	72.6	62.4

# STATEMENT

## Balance Sheets of Electrical Departments of

### TRENT SYSTEM—Continued

Municipality.....	Norwood	Omemece	Peterboro	Picton
Population.....	765	450	21,605	3,135
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....			75,337.79	1,405.07
Substation equipment.....	457.53	360.32	81,888.48	989.69
Distribution system, overhead....	22,551.21	9,601.17	133,798.61	28,074.86
Distribution system, underground				
Line transformers.....	3,482.24	2,372.39	73,259.13	6,048.82
Meters.....	4,043.07	2,171.63	68,827.08	10,006.85
Street light equipment, regular...	1,802.02	436.78	30,146.57	1,596.62
Street light equip., ornamental...				
Misc. construction expense.....	3,959.86	1,540.92	53,203.87	3,250.20
Steam or hydraulic plant.....				
Old plant.....	2,447.51		17,410.71	3,739.98
Total plant.....	38,743.44	16,483.21	533,872.24	55,112.09
Bank and cash balance.....	4,147.97		25,396.44	8,365.10
Securities and investments.....				23,000.00
Accounts receivable.....	305.09	85.06	17,468.67	9,287.31
Inventories.....			10,847.36	3,271.23
Sinking fund on local debentures.			58,851.03	
Equity in Hydro systems.....				
Other assets.....	178.78		5,296.76	
Total assets.....	43,375.28	16,568.27	651,732.50	99,035.73
Deficit.....				
Total.....	43,375.28	16,568.27	651,732.50	99,035.73
LIABILITIES				
Debenture balance.....	35,159.67	9,485.50	430,000.00	2,715.29
Accounts payable.....	12.09		10,620.91	1,812.00
Bank overdraft.....		492.61		
Other liabilities.....	165.00		45,966.80	
Total liabilities.....	35,336.76	9,978.11	486,587.71	4,527.29
RESERVES				
For equity in H.E.P.C. systems...				
For depreciation.....	1,971.04	2,290.29	47,507.93	2,959.43
Total reserves.....	1,971.04	2,290.29	47,507.93	2,959.43
SURPLUS				
Debentures paid.....	1,940.33	2,514.50		3,015.03
Local sinking fund.....			58,851.03	
Additional operating surplus.....	4,127.15	1,785.37	58,785.83	88,533.98
Total surplus.....	6,067.48	4,299.87	117,636.86	91,549.01
Total liabilities, reserves & surplus..	43,375.28	16,568.27	651,732.50	99,035.73
Percentage of net debt to total assets	81.5	60.2	72.2	4.5



## "A"—Concluded

## Hydro Municipalities as at December 31, 1924

Warkworth P.V.	Wellington 812	Whitby 4,174	East Whitby Township	West Whitby Township	TRENT SYSTEM SUMMARY	ALL SYSTEMS GRAND SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	200.00	3,187.94	.....	.....	189,348.63	4,561,648.92
.....	.....	2,461.74	.....	.....	86,730.66	6,800,238.00
4,837.67	11,535.53	35,590.78	704.50	9,207.42	424,642.10	14,182,190.33
.....	.....	.....	.....	.....	55,359.36	2,873,446.13
292.61	2,944.94	5,692.63	2,459.31	2,329.96	148,511.12	4,456,669.02
733.53	3,196.67	9,439.39	787.22	1,207.75	189,516.21	5,149,629.71
299.74	843.66	3,488.59	.....	721.76	57,049.86	1,134,491.77
.....	.....	.....	.....	.....	25,127.91	728,298.08
609.19	717.28	4,924.99	48.97	33.11	123,538.37	4,168,262.21
.....	.....	.....	.....	.....	73,735.13	4,196,803.45
3,631.52	2,477.92	1,340.13	.....	.....	79,667.20	5,587,420.31
10,404.26	21,916.00	66,126.19	4,000.00	13,500.00	1,453,226.55	53,839,097.93
1,542.86	2,224.43	7,853.81	.....	.....	85,393.68	1,748,912.34
.....	.....	.....	.....	.....	23,000.00	1,329,622.58
1,457.51	633.01	2,840.49	.....	.....	52,516.60	3,898,751.89
.....	15.00	253.02	.....	.....	24,355.18	1,745,628.16
.....	.....	.....	.....	.....	113,793.62	4,520,723.06
.....	125.25	.....	.....	.....	5,600.79	5,420,567.58
13,404.63	24,913.69	77,073.51	4,000.00	13,500.00	1,757,886.42	72,753,596.31
.....	.....	.....	.....	.....	.....	130,674.68
13,404.63	24,913.69	77,073.51	4,000.00	13,500.00	1,757,886.42	72,884,270.99
10,860.86	15,605.37	38,031.94	3,241.39	10,940.09	894,555.76	38,005,162.50
799.14	.....	8,011.35	.....	.....	21,576.93	3,117,224.08
.....	.....	.....	.....	.....	492.61	162,100.71
.....	.....	.....	.....	.....	46,131.80	1,780,564.27
11,660.00	15,605.37	46,043.29	3,241.39	10,940.09	962,757.10	43,065,051.56
.....	.....	.....	.....	.....	.....	.....
123.00	2,382.95	2,366.00	.....	.....	103,456.62	5,420,567.58
.....	.....	.....	.....	.....	.....	8,097,834.68
123.00	2,382.95	2,366.00	.....	.....	103,456.62	13,518,402.26
139.14	1,394.63	18,580.56	758.61	2,559.91	99,553.16	3,530,610.35
1,482.49	5,530.74	10,083.66	.....	.....	113,793.62	4,520,723.06
.....	.....	.....	.....	.....	478,325.92	8,249,483.76
1,621.63	6,925.37	28,664.22	758.61	2,559.91	691,672.70	16,300,817.17
13,404.63	24,913.69	77,073.51	4,000.00	13,500.00	1,757,886.42	72,884,270.99
87.0	62.6	59.7	81.0	81.0	51.6	61.4

# STATEMENT

## Condensed Operating Reports of Electrical Departments

### NIAGARA

Municipality	Population	Cost of power purchased	Cost of operation and maintenance	Debenture charges and interest	Total cost of operation	Revenue	Gross surplus
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Acton.....	1,649	13,675.05	4,247.86	440.93	18,363.84	21,730.52	3,366.68
Agincourt.....	P.V.	1,488.63	366.19	787.83	2,642.65	4,473.19	1,830.54
Ailsa Craig.....	514	5,533.72	337.82	247.52	6,119.06	7,190.53	1,071.47
Alvinston.....	657	5,353.00	584.93	2,079.07	8,017.00	10,825.32	2,808.32
Ancaster Twp.....		4,816.57	3,466.78	1,542.91	9,826.26	15,485.61	5,659.35
Aylmer.....	2,222	10,509.61	3,976.65	1,898.98	16,385.24	19,885.84	3,500.60
Ayr.....	811	2,744.61	1,024.63	955.25	4,724.49	6,491.37	1,766.88
Baden.....	P.V.	7,599.59	657.63	230.48	8,487.70	9,381.63	893.93
Barton Twp**.....		9,982.08	5,126.24	4,780.17	19,888.49	22,035.76	2,147.27
Beachville.....	P.V.	12,564.62	557.36	143.77	13,265.75	16,336.20	3,070.45
Belle River.....	560	2,242.23	579.45	690.64	3,512.32	6,026.13	2,513.81
Blenheim.....	1,553	10,688.43	2,295.76	993.58	13,977.77	17,970.67	3,992.90
Blyth*.....	646	1,444.83	221.95		1,666.78	2,638.97	972.19
Bolton.....	664	5,223.96	832.28	1,073.86	7,130.10	9,120.34	1,990.24
Bothwell.....	647	6,801.09	846.15	927.13	8,574.37	11,446.68	2,872.31
Brampton.....	4,778	36,252.77	8,594.97	3,612.49	48,460.23	53,100.48	4,640.25
Brantford.....	30,109	179,393.19	38,101.15	37,764.41	255,258.75	282,452.46	27,193.71
Brantford Twp.....		9,787.38	5,284.89	4,575.49	19,647.76	25,151.12	5,503.36
Brigden.....	P.V.	4,367.88	853.28	367.77	5,588.93	6,022.88	433.95
Brussels*.....	890	2,052.38	190.31	364.29	2,606.98	3,831.97	1,224.99
Burford.....	P.V.	3,527.86	1,302.52	930.21	5,760.59	7,170.11	1,409.52
Burgessville.....	P.V.	1,717.48	160.44	292.58	2,170.50	2,717.33	546.83
Caledonia.....	1,326	4,316.26	1,210.32	483.72	6,010.30	7,616.66	1,606.36
Chatham.....	15,084	92,412.84	39,330.43	22,073.16	153,816.43	181,952.96	28,136.53
Chippawa.....	1,078	2,620.22	1,506.33	1,224.39	5,350.94	6,232.61	881.67
Clifford†.....	467	1,504.49	170.31	6.10	1,680.90	2,429.90	749.00
Clinton.....	1,922	12,078.77	3,463.29	2,776.42	18,318.48	21,365.82	3,047.34
Comber.....	P.V.	5,701.02	714.08	626.38	7,041.48	8,006.11	964.63
Courtright.....	441	1,638.82	267.03	841.84	2,747.69	3,881.36	1,133.67
Dashwood.....	P.V.	2,764.51	298.24	232.35	3,295.10	3,540.49	245.39
Delaware.....	P.V.	761.32	165.75	260.46	1,187.53	1,664.18	476.65
Dereham Twp.....		3,740.06	1,208.36	4,099.19	9,047.61	9,986.44	938.83
Dorchester.....	P.V.	2,119.43	449.24	229.93	2,798.60	3,935.98	1,137.38
Drayton.....	613	3,952.87	462.27	445.08	4,860.22	6,474.22	1,614.00
Dresden.....	1,426	7,351.49	2,724.44	1,036.25	11,112.18	13,624.17	2,511.99
Drumbo.....	P.V.	1,471.50	697.13	195.87	2,364.50	2,833.57	469.07
Dublin.....	P.V.	1,876.11	277.88	580.82	2,734.81	3,114.80	379.99
Dundas.....	5,070	33,143.31	12,114.81	3,570.57	48,828.69	53,301.19	4,472.50
Dunnville.....	3,605	13,197.11	4,888.03	4,714.15	22,799.29	28,976.10	6,176.81
Dutton.....	823	5,619.36	1,338.66	371.26	7,329.28	9,138.44	1,809.16
Elmira.....	2,392	18,444.31	3,627.69	1,329.84	23,401.84	28,189.00	4,787.16
Elora.....	1,079	9,696.39	3,263.66	919.00	13,879.05	15,288.57	1,409.52
Embro.....	475	3,416.10	385.69	630.15	4,431.94	5,515.37	1,083.43
Erieau*.....	153	428.52	55.59		484.11	945.06	460.95
Essex§.....	1,591	9,055.42	3,389.53	2,176.60	14,621.55	25,385.98	10,764.43

\* 4 months' operation only. † 5½ months' operation only. \*\* 9 months' operation only.  
 § 14 months' operation.

" B "

## of Hydro Municipalities for Year Ended December 31, 1924

## SYSTEM

Gross deficit	Depreciation	Net surplus	Net deficit	Number of consumers					Per cent of consumers to population	Horse-power taken in Dec., 1924
				Dom. light	Com'l light	Pow-er	Rural	Total		
\$ c.	\$ c.	\$ c.	\$ c.							
819.00	2,547.68	399	69	18	486	29.4	469.9			
184.00	1,646.54	99	11	2	114	69.7				
328.00	743.47	111	31	3	145	28.2	72.9			
442.00	2,366.32	140	53	7	200	30.4	105.6			
816.00	4,843.35	514	41	4	559		283.5			
755.00	2,745.60	499	122	12	633	28.4	370.0			
410.00	1,356.88	157	51	3	211	26.0	86.0			
325.00	568.93	95	26	4	125		277.2			
1,253.00	894.27	1,093	77	10	1,180		588.0			
456.00	2,614.45	93	30	2	125		403.9			
278.00	2,235.81	118	24	2	144	25.7	71.0			
822.00	3,170.90	418	102	18	538	34.6	355.4			
	972.19	95	34		129	19.9	56.3			
520.00	1,470.24	122	39	6	167	25.0	99.7			
412.00	2,460.31	169	51	15	235	36.3	171.6			
1,272.00	3,368.25	1,148	212	50	1,410	29.5	1,361.2			
14,995.03	12,198.68	5,337	615	95	6,047	20.0	8,170.2			
1,494.00	4,009.36	546	41	5	618		274.2			
229.00	204.95	85	38	4	127		56.8			
	1,224.99	142	56		198	22.2	107.2			
296.00	1,113.52	161	38	4	209		95.1			
113.00	433.83	47	15	1	63		21.3			
447.00	1,159.36	113	80	8	201	15.1	201.0			
8,812.00	19,324.53	3,517	640	135	4,292	28.4	3,590.2			
436.00	445.67	197	31	4	232	21.5	132.7			
	749.00	53	29	1	83	17.7	34.8			
1,165.00	1,882.34	433	132	11	576	29.9	336.4			
262.00	702.63	79	47	2	128		167.3			
135.00	998.67	69	14		83	18.8	28.4			
113.00	132.39	53	25	2	80		44.7			
100.00	376.65	43	11		54		14.4			
1,354.00	415.17	415.17			192		100.5			
265.00	872.38	124	16	4	144		60.4			
297.00	1,317.00	121	43	3	167	27.2	72.3			
710.00	1,801.99	304	113	13	430	30.1	246.6			
163.00	306.07	77	22	3	102		78.3			
163.00	216.99	29	20	4	53		36.4			
1,006.00	3,466.50	981	166	48	1,195	23.5	1,362.1			
1,875.00	4,301.81	386	170	19	575	15.9	449.0			
388.00	1,421.16	182	73	6	263	30.9	168.9			
1,166.00	3,621.16	438	112	26	576	24.0	630.0			
753.00	656.52	265	68	3	336	31.1	297.4			
298.00	785.43	86	34	4	125	26.3	46.6			
	460.95	49	2	1	52	33.9	20.5			
785.00	9,979.43	316	102	10	428	26.9	179.6			



# STATEMENT

## Condensed Operating Reports of Electrical Departments

### NIAGARA

Municipality	Population	Cost of power purchased	Cost of operation and maintenance	Debenture charges and interest	Total cost of operation	Revenue	Gross surplus
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Etobicoke Twp. ....		27,028.18	14,604.44	13,916.37	55,548.99	68,770.83	13,221.84
Exeter. ....	1,531	10,785.82	2,901.58	1,292.75	14,980.15	18,934.36	3,954.21
Fergus. ....	1,762	9,544.91	4,147.59	2,763.42	16,455.92	17,535.61	1,079.69
Ford City. ....	5,724	49,160.39	10,170.34	8,419.73	67,750.46	83,421.15	15,670.69
Forest. ....	1,437	7,828.27	3,430.46	2,371.15	13,629.88	16,900.39	3,270.51
Galt. ....	13,222	124,149.81	28,953.31	45,196.40	198,299.52	218,814.85	20,515.33
Georgetown. ....	1,973	21,654.42	4,845.90	1,015.63	27,515.95	32,917.20	5,401.25
Glencoe. ....	840	5,439.38	1,299.13	1,486.85	8,225.36	10,984.97	2,759.61
Goderich. ....	4,220	32,169.06	7,960.90	3,507.71	43,637.67	52,021.43	8,383.76
Grantham Tp. §. ....		2,809.31	1,393.20	3,134.90	7,337.41	7,590.67	253.26
Granton. ....	P.V.	2,738.48	317.93	261.31	3,317.72	3,849.36	531.64
Guelph. ....	18,420	139,891.84	37,357.58	7,472.95	184,722.37	240,358.24	55,635.87
Hagersville. ....	1,155	22,165.84	4,272.43	378.71	26,816.98	27,547.74	730.76
Hamilton. ....	120,234	582,374.88	176,536.60	160,488.88	919,400.36	942,975.08	23,574.72
Harriston. ....	1,318	10,090.67	1,728.92	1,516.53	13,336.12	16,085.36	2,749.24
Harrow†. ....	P.V.	4,193.04	1,303.95	1,411.71	6,908.70	11,951.49	5,042.79
Hensall. ....	705	4,064.97	775.73	783.11	5,623.81	8,331.07	2,707.26
Hespeler. ....	2,907	17,803.24	4,816.22	3,198.20	25,817.66	33,173.79	7,356.13
Highgate. ....	414	2,883.36	584.61	241.41	3,709.38	4,404.04	694.66
Humberstone*. ....	1,428	606.10	422.24	.....	1,028.34	1,231.03	202.69
Ingersoll. ....	5,002	40,064.45	11,560.48	4,190.30	55,815.23	65,861.34	10,046.11
Jarvis§. ....	475	2,842.39	497.28	945.63	4,285.30	5,265.86	980.56
Kingsville†. ....	1,990	13,175.97	5,113.67	3,237.16	21,526.80	34,481.34	12,954.54
Kitchener. ....	23,571	251,260.09	56,808.45	24,206.79	332,275.33	390,813.83	58,538.50
Lambeth. ....	P.V.	2,506.15	288.60	265.15	3,059.90	4,123.93	1,064.03
Leamington†. ....	3,969	15,161.90	8,375.92	4,768.76	28,306.58	54,088.81	25,782.23
Listowel. ....	2,431	16,182.76	4,812.51	3,841.79	24,837.06	28,244.91	3,407.85
London. ....	61,369	456,941.47	159,193.07	114,953.97	731,088.51	790,169.80	59,081.29
London Twp. ....		2,979.57	655.12	1,046.79	4,681.48	7,526.68	2,845.20
Louth Twp. ....		.....	240.79	523.33	764.12	888.15	124.03
Lucan. ....	602	5,355.71	1,823.24	409.70	7,588.65	7,504.40	.....
Lynden. ....	P.V.	5,003.30	300.91	301.25	5,605.46	6,567.76	962.30
Markham. ....	967	4,575.96	2,168.43	1,123.52	7,867.91	9,780.56	1,912.65
Merlin. ....	P.V.	4,071.66	564.13	888.80	5,524.59	8,062.68	2,538.09
Merritton. ....	2,591	12,469.19	6,138.34	988.42	19,595.95	21,993.11	2,397.16
Milton. ....	1,900	32,793.41	4,106.53	2,098.68	38,998.62	41,888.33	2,889.71
Milverton. ....	1,056	15,667.44	1,287.67	852.86	17,807.97	19,970.90	2,162.93
Mimico. ....	4,137	28,132.07	10,842.53	4,599.57	43,574.17	46,886.43	3,312.26
Mitchell. ....	1,739	9,978.38	3,457.31	809.45	14,245.14	20,693.50	6,448.36
Moorefield. ....	P.V.	2,601.85	178.39	365.37	3,145.61	3,545.23	399.62
Mt. Brydges. ....	P.V.	1,823.35	366.80	202.84	2,392.99	3,606.74	1,213.75
Newbury. ....	307	1,288.22	322.35	794.18	2,404.75	3,059.73	654.98
New Hamburg. ....	1,390	12,514.20	3,106.25	1,155.07	16,775.52	21,079.85	4,304.33
New Toronto. ....	3,182	73,835.09	10,610.99	335.54	84,781.62	102,042.44	17,260.82
Niagara Falls. ....	15,404	105,008.31	39,303.03	38,060.33	182,371.67	207,697.10	25,325.43

\* 2 months' operation.

† 14 months' operation.

§ 9 months' operation only.

## " B "—Continued

## of Hydro Municipalities for Year Ended December 31, 1924

## SYSTEM—Continued

Gross deficit	Depreciation	Net surplus	Net deficit	Number of consumers					Per cent of consumers to population	Horse-power taken in Dec., 1924
				Dom. light	Com'l light	Po- wer	Rural	Total		
\$ c.	\$ c.	\$ c.	\$ c.							
5,357.00	7,864.84	3,051	199	17	3,267	1,284.1				
762.00	3,192.21	358	101	9	468	283.7				
900.00	179.69	412	87	18	517	362.0				
2,335.00	13,335.69	1,670	170	26	1,866	1,706.5				
861.00	2,409.51	400	109	22	531	169.0				
14,544.52	5,970.81	3,289	504	123	3,916	5,122.6				
1,335.00	4,066.25	473	104	26	683	629.2				
542.00	2,217.61	193	90	7	290	132.6				
3,286.00	5,097.76	1,139	225	22	1,428	774.8				
907.20	653.94				282					
149.00	382.64	72	24	1	97	37.5				
9,799.00	45,836.87	4,332	655	113	5,100	6,477.2				
522.00	208.76	230	89	12	331	304.9				
34,911.27	11,336.55	24,556	2,630	728	27,914	27,035.0				
598.00	2,151.24	265	85	10	360	209.1				
386.00	4,656.79	145	55	8	208	76.4				
375.00	2,332.26	149	42	12	203	83.2				
1,494.00	5,862.13	611	107	18	736	769.9				
198.00	496.66	84	34	5	123	40.2				
	202.69					169.0				
3,008.00	7,038.11	1,261	248	51	1,560	1,547.9				
	980.56	51	31	3	85	152.8				
990.00	11,964.54	535	150	11	700	283.9				
17,961.99	40,576.51	4,895	739	229	5,863	10,597.8				
204.00	860.03	109	16	2	127	68.9				
1,493.00	24,289.23	975	191	21	1,193	392.7				
1,455.00	1,952.85	564	140	21	731	536.2				
57,277.83	1,803.46	14,957	1,907	497	17,361	20,551.6				
238.00	2,607.20	226	6	1	233					
96.13	27.90				56					
84.25	421.00	505.25	154	39	201	176.1				
	796.30	72	18	1	91	159.6				
	398.00	1,514.65	212	48	266	100.5				
	239.00	2,299.09	86	30	119	85.8				
	685.00	1,712.16	590	55	649	683.6				
1,104.00	1,785.71	384	88	24	496	1,091.7				
474.00	1,688.93	190	60	7	257	476.5				
2,783.00	529.26	1,308	112	13	1,433	1,285.5				
1,732.00	4,716.36	393	106	24	523	306.8				
113.00	286.62	44	17	2	63	22.7				
179.00	1,034.75	100	25	2	127	44.2				
179.00	475.98	48	23	1	72	28.0				
413.00	3,891.33	291	77	14	382	391.4				
1,944.00	15,316.82	886	103	18	1,007	2,929.0				
12,748.00	12,577.43	3,499	552	81	4,132	6,336.5				

# STATEMENT

## Condensed Operating Reports of Electrical Departments

### NIAGARA

Municipality	Population	Cost of power purchased	Cost of operation and maintenance	Debenture charges and interest	Total cost of operation	Revenue	Gross surplus
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Niagara-on-the-Lake.....	1,714	5,858.39	4,430.98	1,748.35	12,037.72	12,863.57	825.85
North York Tp. ....		8,566.43	5,868.54	5,080.93	19,515.90	20,491.48	975.58
Norwich.....	1,315	11,588.63	9,127.14	493.94	21,209.71	27,056.17	5,846.46
Oil Springs.....	469	8,783.63	1,511.87	1,383.86	11,679.36	14,174.90	2,495.54
Otterville.....	P.V.	2,057.76	586.58	220.29	2,864.63	3,994.96	1,130.33
Palmerston....	1,820	10,817.05	3,963.09	985.96	15,766.10	17,737.69	1,971.59
Paris.....	4,345	25,380.55	5,452.95	6,116.71	36,950.21	44,891.10	7,940.89
Parkhill.....	1,192	4,696.05	779.64	1,094.84	6,570.53	8,089.89	1,519.36
Petrolia.....	2,836	29,004.63	8,530.40	3,150.80	40,685.83	46,455.16	5,769.33
Plattsville.....	P.V.	2,499.81	225.56	391.83	3,117.20	3,852.66	735.46
Point Edward..	1,116	11,948.24	919.87	635.76	13,503.87	15,130.52	1,626.65
Port Colborne..	3,624	15,533.07	6,374.83	5,764.17	27,672.07	29,712.62	2,040.55
Port Credit....	1,134	6,988.76	1,723.38	405.25	9,117.39	10,683.82	1,566.43
Port Dalhousie.	1,467	6,107.93	2,821.05	1,921.92	10,850.90	15,665.54	4,814.64
Port Dover....	1,573	4,285.75	1,182.30	2,797.89	8,265.94	10,893.18	2,627.24
Port Stanley...	726	8,875.39	3,331.07	1,135.37	13,341.83	16,686.10	3,344.27
Preston.....	5,576	57,990.76	12,720.98	10,699.29	81,411.03	96,632.96	15,221.93
Princeton.....	P.V.	1,714.78	166.18	241.00	2,121.96	3,231.73	1,109.77
Queenston.....	P.V.	1,578.83	311.31	788.14	2,678.28	3,029.91	351.63
Ridgetown.....	1,947	10,392.46	3,957.74	1,043.98	15,394.18	17,906.53	2,512.35
Riverside.....	3,034	12,098.39	6,266.49	3,744.62	22,109.50	28,545.66	6,436.16
Rockwood.....	P.V.	2,784.39	812.14		3,596.53	4,296.09	699.56
Rodney.....	711	3,204.43	627.42	256.64	4,088.49	6,688.95	2,580.46
St. Catharines..	21,194	106,367.48	47,403.96	16,284.79	170,056.23	188,475.92	18,419.69
St. Clair Beach.	131	1,573.03	390.34	595.07	2,558.44	5,020.35	2,461.91
St. George.....	P.V.	3,171.97	511.50	134.11	3,817.58	5,049.32	1,231.74
St. Jacobs.....	P.V.	2,175.43	425.93	368.68	2,970.04	3,395.27	425.23
St. Marys.....	4,017	27,702.09	7,715.64	5,557.47	40,975.20	44,142.51	3,167.31
St. Thomas.....	17,779	100,920.05	40,686.47	9,180.16	150,786.68	186,982.10	36,195.42
Sandwich*.....	5,010	36,808.79	9,138.79	5,977.95	51,925.53	55,682.33	3,756.80
Sarnia.....	15,176	131,788.49	33,776.20	25,551.58	191,116.27	224,023.44	32,907.17
Scarboro Twp..		32,439.49	17,536.70	16,726.02	66,702.21	84,380.58	17,678.37
Seaforth.....	1,902	13,827.53	3,225.20	933.10	17,985.83	22,228.78	4,242.95
Simcoe.....	4,049	16,767.24	3,883.07	2,309.14	22,959.45	28,112.77	5,153.32
Springfield....	381	2,101.15	588.74	660.00	3,349.89	3,556.97	207.08
Stamford Twp..		13,548.87	10,912.03	8,524.79	32,985.69	41,180.10	8,194.41
Stouffville.....	1,115	3,764.73	863.78	1,348.61	5,977.12	9,796.66	3,819.54
Stratford.....	18,224	145,935.95	25,952.78	29,518.50	201,407.23	237,250.49	35,843.26
Strathroy.....	2,642	18,593.17	5,409.22	2,960.44	26,962.83	31,478.32	4,515.49
Sutton.....	847	3,049.35	894.05	2,214.19	6,157.59	7,355.47	1,197.88
Tavistock.....	1,027	8,533.05	1,274.50	141.96	9,949.51	10,381.21	431.70
Tecumseh.....	1,133	4,124.08	2,964.00	2,359.88	9,447.96	12,285.72	2,837.76
Thamesford....	P.V.	4,550.34	406.59	346.37	5,303.30	7,230.69	1,927.39
Thamesville....	785	4,058.17	831.39	422.54	5,312.10	8,846.58	3,534.48
Thedford.....	506	2,954.67	486.78	1,231.94	4,673.39	5,674.05	1,000.66

\* 9 months' operation only.

\*\*Port Stanley total includes summer consumers.



## " B "—Continued

## of Hydro Municipalities for Year Ended December 31, 1924

## SYSTEM—Continued

Gross deficit	Depreciation	Net surplus	Net deficit	Number of consumers					Per cent of consumers to population	Horse-power taken in Dec., 1924
				Dom. light	Com'l light	Po- wer	Rural	Total		
\$ c.	\$ c.	\$ c.	\$ c.							
.....	612.00	213.85	.....	354	78	9	6	447	26.0	237.2
.....	920.00	55.58	.....	655	37	11	.....	703	.....	358.8
.....	1,795.00	4,051.46	.....	339	89	8	167	603	†	426.3
.....	493.00	2,002.54	.....	65	29	38	.....	132	28.1	282.8
.....	204.00	926.33	.....	92	26	4	.....	122	.....	61.1
.....	775.00	1,196.59	.....	316	77	7	.....	400	21.9	290.8
.....	3,422.00	4,518.89	.....	961	179	21	7	1,168	26.8	1,061.6
.....	448.00	1,071.36	.....	191	62	3	.....	256	21.4	106.8
.....	1,815.00	3,954.33	.....	581	189	66	.....	836	29.4	873.9
.....	70.00	665.46	.....	80	28	3	.....	111	.....	40.7
.....	495.00	1,131.65	.....	250	39	10	.....	299	26.7	708.9
.....	1,500.00	540.55	.....	852	186	16	.....	1,054	29.0	891.4
.....	688.00	878.43	.....	302	62	7	.....	371	32.7	337.8
.....	515.00	4,299.64	.....	523	30	12	59	624	42.5	236.0
.....	668.00	1,959.24	.....	238	96	6	.....	340	21.6	144.8
.....	883.00	2,461.27	.....	534	57	12	.....	603	**	144.1
.....	4,849.21	10,372.72	.....	1,295	205	47	.....	1,547	27.7	2,437.0
.....	122.00	987.77	.....	82	13	1	.....	96	.....	29.5
.....	194.00	157.63	.....	68	4	1	.....	73	.....	76.4
.....	804.00	1,708.35	.....	447	124	17	.....	588	30.0	374.0
.....	1,181.00	5,255.16	.....	679	27	5	.....	711	23.4	423.6
.....	290.00	409.56	.....	125	19	4	.....	148	.....	69.7
.....	295.00	2,285.46	.....	160	65	4	.....	229	32.2	106.5
.....	10,555.00	7,864.69	.....	4,851	481	106	.....	5,438	25.6	5,860.9
.....	157.00	2,304.91	.....	34	4	2	.....	40	38.1	34.8
.....	205.00	1,026.71	.....	108	31	4	.....	143	.....	87.1
.....	202.00	223.23	.....	67	26	4	4	101	.....	133.0
.....	1,315.00	1,852.31	.....	904	200	44	.....	1,148	28.5	780.0
.....	9,958.00	26,237.42	.....	3,747	603	116	.....	4,466	25.1	4,112.0
.....	.....	3,756.80	.....	1,596	106	17	.....	1,719	34.3	1,733.7
.....	11,174.00	21,733.17	.....	4,176	610	78	.....	4,864	32.0	4,804.7
.....	4,843.00	12,835.37	.....	2,529	190	30	20	2,769	.....	1,480.1
.....	784.00	3,458.95	.....	535	118	12	.....	665	34.9	459.8
.....	1,531.00	3,622.32	.....	454	208	26	.....	688	16.9	745.3
.....	137.00	70.08	.....	74	23	2	.....	99	25.7	29.5
.....	2,439.00	5,755.41	.....	869	15	16	.....	900	.....	898.0
.....	281.00	3,538.54	.....	206	67	5	.....	278	24.9	89.5
.....	14,280.25	21,563.01	.....	4,036	532	174	.....	4,742	26.0	5,086.2
.....	2,009.00	2,506.49	.....	681	165	24	.....	870	32.9	632.7
.....	457.00	740.88	.....	232	44	1	.....	277	32.6	61.0
.....	420.00	11.70	.....	203	66	4	.....	273	26.5	264.7
.....	627.00	2,210.76	.....	331	35	1	.....	367	32.3	109.9
.....	296.00	1,631.39	.....	93	27	5	.....	125	.....	122.6
.....	416.00	3,118.48	.....	193	76	6	.....	275	35.0	114.4
.....	230.00	770.66	.....	104	35	3	.....	142	28.0	48.2

† Norwich included rural consumers of North and South Norwich Townships.

# STATEMENT

## Condensed Operating Reports of Electrical Departments

### NIAGARA

Municipality	Population	Cost of power purchased	Cost of operation and maintenance	Debt service charges and interest	Total cost of operation	Revenue	Gross surplus
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Thorndale.....	P.V.	2,622.82	458.45	322.95	3,404.22	3,744.17	339.95
Thorold.....	5,033	15,013.91	9,293.07	431.41	24,738.39	31,774.62	7,036.23
Tilbury.....	1,981	10,701.26	1,887.42	746.53	13,335.21	20,487.84	7,152.63
Tillsonburg.....	3,086	16,706.67	7,252.13	1,179.84	25,138.64	34,950.62	9,811.98
Toronto.....	529,210	350,854.14	215,520.86	165,486.83	731,861.83	780,385.07	48,523.24
Toronto Twp.....		16,377.86	9,158.48	6,852.85	32,389.19	48,810.05	16,420.86
Trafalgar Twp.....		3,323.00	2,696.51	1,782.42	7,801.93	10,612.36	2,810.43
Vaughan Twp.....		2,675.52	494.62	2,460.75	5,630.89	8,779.83	3,148.94
Walkerville.....	7,469	136,913.86	38,010.93	20,075.56	195,000.35	224,249.82	29,249.47
Wallaceburg.....	4,530	37,778.70	10,582.29	3,411.34	51,772.33	67,164.61	15,392.28
Wardsville.....	195	843.99	239.93	588.96	1,672.88	1,954.82	281.94
Waterdown.....	811	6,243.77	1,992.39	1,555.39	9,791.55	14,535.00	4,743.45
Waterford.....	1,065	6,271.29	1,390.34	.....	7,661.63	10,882.44	3,220.81
Waterloo.....	6,096	54,149.99	14,619.06	8,193.56	76,962.61	93,855.13	16,892.52
Watford.....	1,059	5,190.01	1,685.47	671.09	7,546.57	10,324.82	2,778.25
Welland.....	8,636	54,589.68	19,197.66	22,153.37	95,940.71	102,789.22	6,848.51
Wellesley.....	P.V.	5,691.34	535.91	630.47	6,857.72	8,034.19	1,176.47
West Lorne.....	812	9,844.83	1,375.79	152.14	11,372.76	12,525.59	1,152.83
Weston.....	3,569	50,083.42	7,580.58	3,463.80	61,127.80	72,968.52	11,840.72
Wheatley.....	647	2,747.92	360.47	956.62	4,065.01	6,079.96	2,014.95
Windsor.....	42,122	450,981.59	167,428.13	93,586.62	711,996.34	827,881.73	115,885.39
Woodbridge.....	675	5,182.56	1,096.64	304.19	6,583.39	8,696.45	2,113.06
Woodstock.....	10,196	78,986.59	20,263.72	5,637.95	104,888.26	120,408.05	15,519.79
Wyoming.....	503	2,314.29	521.85	899.91	3,736.05	4,104.12	368.07
Zurich.....	P.V.	4,187.81	557.03	125.12	4,869.96	5,535.79	665.83
Total.....	119,113	819,416.10	357,242.75	259,784.36	1,436,443.21	1,596,474.80	160,039.54

### GEORGIAN

		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Alliston.....	1,283	7,366.58	1,892.42	3,123.22	12,382.22	13,325.75	943.53
Arthur.....	1,062	9,011.68	857.24	2,103.18	11,972.10	13,066.03	1,093.93
Barrie.....	7,075	35,558.96	9,084.05	3,035.44	47,678.45	59,399.32	11,720.87
Beaverton.....	975	5,302.08	1,449.72	1,107.24	7,859.04	14,196.19	6,337.15
Beeton.....	578	6,960.24	575.98	1,114.99	8,651.21	8,844.16	192.95
Bradford.....	995	6,749.73	771.74	1,772.31	9,293.78	10,776.99	1,483.21
Brechin.....	P.V.	2,150.55	438.19	378.90	2,967.64	3,677.23	709.59
Cannington.....	924	3,829.35	1,360.98	1,122.25	6,312.58	8,678.34	2,365.76
Chatsworth.....	284	1,421.12	193.41	486.61	2,101.14	2,822.28	721.14
Chesley.....	1,746	12,014.36	1,649.94	2,174.06	15,838.36	20,406.28	4,567.92
Coldwater.....	595	2,807.55	727.47	461.28	3,996.30	4,994.17	997.87
Collingwood.....	6,004	43,594.55	7,321.92	3,205.79	54,122.26	60,305.80	6,183.54
Cookstown.....	P.V.	2,141.37	438.20	1,211.64	3,791.21	3,589.73	.....
Creemore.....	630	3,712.44	432.23	566.69	4,711.36	5,251.94	540.58
Dundalk.....	727	3,559.17	653.43	418.35	4,630.95	7,300.21	2,669.26

## "B"—Continued

## of Hydro Municipalities for Year Ended December 31, 1924

## SYSTEM—Concluded

Gross deficit	Depreciation	Net surplus	Net deficit	Number of consumers					Per cent of consumers to population	Horse-power taken in Dec., 1924
				Dom. light	Com'l light	Po- wer	Rural	Total		
\$ c.	\$ c.	\$ c.	\$ c.							
150.00	189.95	65	21	1	87	36.4				
2,035.00	5,001.23	1,086	181	8	1,275	25.3				849.8
539.00	6,613.63	257	95	13	365	18.4				349.9
2,030.00	7,781.98	667	197	25	889	28.8				619.9
430991.12	54,239.12	110169	17,925	2,802	130896	24.7				141917.0
4,033.00	12,387.86	1,057	13	1,070	617.9					
624.00	2,186.43	146	2	12	160					
902.00	2,246.94	64	14	7	99					
8,357.00	20,892.47	1,885	253	77	2,215	29.6				4,473.7
2,122.00	13,270.28	785	183	25	993	21.9				1,565.7
132.00	149.94	43	15	58	29.7					14.4
1,063.00	3,680.45	175	34	4	92	305	37.6			206.2
477.00	2,743.81	269	63	12	344	32.3				255.5
5,550.00	11,342.52	1,360	193	72	1,644	26.9				2,399.5
444.00	2,334.25	229	80	9	318	30.0				128.7
7,194.00	345.49	1,918	280	41	2,239	25.9				2,662.6
268.00	908.47	97	31	5	133	148.8				
334.00	818.83	152	54	4	210	25.8				295.0
3,400.00	8,440.72	1,474	157	20	1,651	46.3				2,018.7
2,014.95	120	53	1	174	26.9					59.0
29,016.00	86,869.39	11,263	1,473	335	13,071	31.9				17,153.5
454.00	1,659.06	162	45	6	214	31.7				311.7
7,422.00	8,097.79	2,409	428	86	2,923	28.6				3,233.4
259.00	109.07	94	48	2	144	28.6				48.2
219.00	446.83	86	42	4	132	43.8				
84.25	825,845.55	787,722.44	13,256.40	264006	41,067	7,362	1,101	313536	332,598.9	

## BAY SYSTEM

\$ c.	\$ c.	\$ c.	\$ c.							
888.00	55.53	301	86	10	397	31.0				132.7
647.00	446.93	144	71	4	219	20.6				160.2
4,063.18	7,657.69	1,645	295	33	1,973	27.8				1,511.7
531.00	5,806.15	227	61	12	394	40.4				154.1
395.00	202.05	100	30	4	134	23.1				109.2
548.00	935.21	150	50	3	203	20.4				151.5
90.00	619.59	26	25	2	62	18.7				
422.00	1,943.76	199	66	10	275	29.8				119.3
162.00	559.14	56	29	1	86	30.3				37.5
810.00	3,757.92	310	94	16	425	24.3				345.78
401.00	596.87	111	48	4	163	27.4				95.1
1,187.00	4,996.54	1,271	255	55	1,583	26.4				1,333.9
201.48	334.00	73	36	2	111	41.8				
276.00	264.58	131	57	7	195	31.0				70.4
291.00	2,378.26	128	76	4	208	28.6				173.4



# STATEMENT

## Condensed Operating Reports of Electrical Departments

### GEORGIAN BAY

Municipality	Population	Cost of power purchased	Cost of operation and maintenance	Debenture charges and interest	Total cost of operation	Revenue	Gross surplus
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Durham.....	1,640	11,302.21	1,826.76	2,363.17	15,492.14	20,162.68	4,670.54
Elmvale.....	P.V.	5,704.02	962.25	245.67	6,911.94	7,345.86	433.92
Elmwood.....	P.V.	2,044.37	172.49	628.37	2,845.23	2,935.46	90.23
Flesherton.....	420	2,472.58	350.32	611.60	3,434.50	3,783.54	349.04
Grand Valley..	616	4,914.80	526.12	715.57	6,156.49	7,592.35	1,435.86
Hanover.....	2,714	35,675.23	5,986.10	6,082.42	47,743.75	54,317.54	6,573.79
Holstein.....	P.V.	1,429.05	239.50	434.75	2,103.30	1,990.86	.....
Kincardine....	2,113	13,157.95	4,276.55	5,646.56	23,081.06	25,532.76	2,451.70
Kirkfield.....	P.V.	1,217.50	239.45	571.55	2,028.50	2,272.18	243.68
Lucknow.....	917	6,251.60	554.33	1,663.30	8,469.23	9,965.24	1,496.01
Markdale.....	865	3,422.02	887.45	674.59	4,984.06	6,191.63	1,207.57
Meaford.....	2,653	13,330.64	4,293.08	1,523.37	19,147.09	29,756.50	10,609.41
Midland.....	7,157	69,632.20	12,747.06	5,789.84	88,169.10	102,160.68	13,991.58
Mount Forest..	1,734	9,202.86	1,975.77	2,194.06	13,372.69	16,895.53	3,522.84
Neustadt.....	452	7,104.98	494.69	1,576.17	9,175.84	9,226.01	50.17
Orangeville....	2,611	12,498.86	2,536.88	3,101.87	18,137.61	20,314.73	2,177.12
Owen Sound...	12,218	43,984.14	20,768.56	6,405.82	71,158.52	94,916.81	23,758.29
Paisley.....	735	3,688.87	401.75	1,330.58	5,421.20	8,026.84	2,605.64
Penetang'shene.	3,945	11,377.57	5,585.66	2,135.56	19,098.79	22,570.34	3,471.55
Port McNicoll..	650	1,584.93	388.26	637.87	2,611.06	3,351.60	740.54
Port Perry.....	1,115	4,950.92	1,103.02	1,004.57	7,058.51	11,789.37	4,730.86
Priceville.....	P.V.	829.86	85.45	691.84	1,607.15	1,197.02	.....
Ripley.....	P.V.	3,624.64	367.03	1,065.50	5,057.17	5,419.82	362.65
Shelburne.....	1,093	7,221.84	995.55	1,605.62	9,823.01	13,059.81	3,236.80
Stayner.....	1,030	4,367.91	1,031.96	874.19	6,274.06	8,046.21	1,772.15
Sunderland....	P.V.	2,783.58	606.52	862.50	4,252.60	5,994.14	1,741.54
Tara.....	502	4,648.01	628.68	1,489.08	6,765.77	6,609.36	.....
Teeswater.....	813	6,361.20	626.87	2,357.67	9,345.74	10,218.94	873.20
Thornton.....	P.V.	1,438.72	87.88	742.94	2,269.54	1,944.50	.....
Tottenham....	519	3,942.05	547.29	855.16	5,344.50	6,003.08	658.58
Uxbridge.....	1,453	5,135.84	1,297.32	800.91	7,234.07	12,558.32	5,324.25
Victoria Harb'r.	1,453	2,136.88	533.16	537.22	3,207.26	3,826.46	619.20
Waubashene...	P.V.	1,395.79	387.26	302.70	2,085.75	2,408.83	323.08
Wingham.....	2,440	16,346.18	5,753.17	6,517.18	28,616.53	33,986.44	5,369.91
Woodville.....	458	2,356.15	523.57	541.65	3,421.37	5,992.78	2,571.41
Total.....	80,694	473,715.68	107,634.68	86,863.37	668,213.73	814,998.64	147,990.41

### MUSKOKA

		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Gravenhurst...	1,609	8,085.86	4,267.81	3,865.51	16,219.18	22,690.46	6,471.28
Huntsville.....	2,286	24,609.46	3,971.13	1,774.61	30,355.20	31,154.86	799.66
Total.....	3,895	32,695.32	8,238.94	5,640.12	46,574.38	53,845.32	7,270.94

## "B"—Continued

## of Hydro Municipalities for Year Ended December 31, 1924

## SYSTEM—Concluded

Gross deficit	Depreciation	Net surplus	Net deficit	Number of consumers					Per cent of consumers to population	Horse-power taken in Dec., 1924
				Dom. light	Com'l light	Po- wer	Rural	Total		
\$ c.	\$ c.	\$ c.	\$ c.							
.....	729.00	3,941.54	.....	297	92	8	.....	397	26.0	153.6
.....	399.00	34.92	.....	115	56	7	.....	178	.....	206.29
.....	167.00	.....	76.77	41	17	1	.....	59	.....	44.5
.....	239.00	110.04	.....	87	30	1	12	130	30.9	57.1
.....	352.00	1,083.86	.....	120	54	3	.....	177	22.2	95.7
.....	2,186.00	4,387.79	.....	601	106	16	7	730	26.9	709.1
112.44	81.00	.....	193.44	37	23	1	.....	61	.....	16.5
.....	1,230.00	1,221.70	.....	399	103	13	.....	515	24.3	230.5
.....	147.00	96.68	.....	23	18	1	.....	42	.....	34.8
.....	429.00	1,067.01	.....	172	70	2	.....	244	26.6	135.4
.....	370.00	837.57	.....	157	71	9	.....	237	27.5	122.3
.....	811.00	9,798.41	.....	493	121	11	.....	625	23.5	258.7
.....	4,275.00	9,716.58	.....	1,385	211	55	.....	1,651	23.0	3,084.4
.....	844.00	2,678.84	.....	310	132	6	.....	448	26.0	248.0
.....	411.00	.....	360.83	67	30	5	.....	102	22.5	124.6
.....	1,001.00	1,176.12	.....	339	123	19	1	482	18.0	366.7
.....	4,988.17	18,770.12	.....	2,548	493	108	.....	3,149	25.8	1,701.29
.....	273.00	2,332.64	.....	128	40	2	.....	170	23.1	91.0
.....	951.00	2,520.55	.....	466	99	26	.....	591	15.0	450.4
.....	234.00	506.54	.....	120	30	1	.....	151	23.2	73.7
.....	413.00	4,317.86	.....	217	68	8	.....	293	26.3	103.8
410.13	121.00	.....	531.13	25	9	.....	.....	34	.....	12.8
.....	275.00	87.65	.....	74	41	.....	1	116	.....	42.9
.....	609.00	2,627.80	.....	242	89	11	.....	342	31.3	276.1
.....	504.00	1,268.15	.....	204	56	10	.....	270	26.2	138.48
.....	191.00	1,550.54	.....	96	37	2	.....	135	.....	57.7
156.41	370.00	.....	526.41	94	37	4	.....	135	26.8	57.6
.....	427.00	446.20	.....	148	59	3	.....	210	25.8	137.67
325.04	201.00	.....	526.04	39	11	.....	.....	50	.....	18.5
.....	281.00	377.58	.....	117	49	4	.....	170	32.8	49.0
.....	336.00	4,988.25	.....	207	77	14	1	299	20.6	127.5
.....	266.00	353.20	.....	145	38	.....	.....	183	12.6	63.0
.....	148.00	175.08	.....	98	19	4	.....	121	.....	40.2
.....	1,908.00	3,461.91	.....	425	151	23	.....	599	24.6	286.8
.....	130.00	2,441.41	.....	90	27	3	.....	120	26.2	45.6
1,205.50	37,342.35	112,394.71	2,952.15	14,998	3,956	549	131	19,634	.....	14,117.51

## SYSTEM

\$ c.	\$ c.	\$ c.	\$ c.							
.....	1,493.00	4,978.28	.....	351	63	12	.....	426	26.4	446.94
.....	661.00	138.66	.....	440	100	8	.....	548	23.9	1,033.5
.....	2,154.00	5,116.94	.....	791	163	20	.....	974	.....	1,480.44

# STATEMENT

## Condensed Operating Reports of Electrical Departments

## ST. LAWRENCE

Municipality	Population	Cost of power purchased	Cost of operation and maintenance	Debenture charges and interest	Total cost of operation	Revenue	Gross surplus
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Alexandria.....	2,255	14,118.64	2,813.91	4,795.13	21,727.68	24,423.06	2,695.38
Apple Hill.....	P.V.	1,583.21	275.89	557.04	2,416.14	2,497.36	81.22
Brockville.....	9,384	47,703.21	19,749.68	12,100.30	79,553.19	115,104.03	35,550.84
Chesterville....	865	10,435.33	1,463.15	516.08	12,414.56	16,685.26	4,270.70
Lancaster.....	601	4,137.90	357.49	1,170.23	5,665.62	4,394.16	.....
Martintown....	P.V.	1,045.52	100.84	467.39	1,613.75	1,600.68	.....
Maxville.....	763	4,417.34	876.33	1,534.97	6,828.64	7,730.39	901.75
Prescott.....	2,597	9,879.91	6,592.79	1,248.06	17,720.76	20,684.88	2,964.12
Williamsburg...	P.V.	1,376.11	188.91	214.16	1,779.18	2,055.80	276.62
Winchester....	1,090	5,464.75	1,834.13	616.50	7,915.38	9,756.73	1,841.35
Total. ....	19,055	100,161.92	34,253.12	23,219.86	157,634.90	204,932.35	48,581.98

## RIDEAU

Carleton Place.	4,254	33,618.93	7,217.69	5,023.13	45,859.75	51,578.56	5,718.81
Kemptville....	1,175	5,632.29	2,805.95	1,556.35	9,994.59	14,672.43	4,677.84
Lanark.....	591	2,311.46	257.90	628.40	3,197.76	3,821.27	623.51
Perth.....	3,710	20,525.18	5,770.64	6,169.45	32,465.27	38,428.20	5,962.93
Smiths Falls ...	6,592	35,964.33	9,640.45	16,408.93	62,013.71	70,940.78	8,927.07
Total. ....	16,322	98,052.19	25,692.63	29,786.26	153,531.08	179,441.24	25,910.16

## THUNDER BAY

Port Arthur....	15,681	383,659.32	65,483.95	27,368.06	476,511.33	584,195.66	107,684.33
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## OTTAWA

Ottawa.....	116,205	151,396.61	140,097.26	62,331.18	353,825.05	446,104.92	92,279.87
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## " B "—Continued

## of Hydro Municipalities for Year Ended December 31, 1924

## SYSTEM

Gross deficit	Depreciation	Net surplus	Net deficit	Number of consumers					Per cent of consumers to population	Horse-power taken in Dec., 1924
				Dom. light	Com'l light	Po- wer	Rural	Total		
\$ c.	\$ c.	\$ c.	\$ c.							
.....	806.00	1,889.38	.....	228	98	15	.....	341	15.1	214.36
.....	107.00	.....	25.78	31	18	1	.....	50	.....	28.8
.....	3,341.00	32,209.84	.....	2,087	394	68	.....	2,549	27.1	1,390.9
.....	385.75	3,884.95	.....	179	62	4	1	246	28.8	179.6
1,271.46	190.00	.....	1,461.46	67	27	1	.....	95	15.8	32.23
13.07	87.00	.....	100.07	25	13	.....	3	41	.....	17.4
.....	356.00	545.75	.....	112	43	2	.....	157	20.6	53.6
.....	710.00	2,254.12	.....	502	144	22	.....	668	25.7	394.0
.....	87.00	189.62	.....	45	16	1	.....	62	.....	27.0
.....	402.00	1,439.35	.....	243	57	3	.....	303	27.8	146.9
1,284.53	6,471.75	42,413.01	1,587.31	3,519	872	117	4	4,512	.....	2,484.79

## SYSTEM

.....	1,480.00	4,238.81	.....	796	174	16	.....	986	23.1	781.88
.....	517.00	4,160.84	.....	228	68	6	1	303	25.7	187.6
.....	146.00	477.51	.....	82	27	2	.....	111	18.7	39.5
.....	1,948.00	4,014.93	.....	714	183	19	.....	916	24.7	558.41
.....	4,118.00	4,809.07	.....	1,370	247	40	23	1,680	25.4	886.0
.....	8,209.00	17,701.16	.....	3,190	699	83	24	3,996	.....	2,453.39

## SYSTEM

.....	18,745.57	88,938.76	.....	3,389	663	80	.....	4,132	26.3	23,739.0
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## SYSTEM

.....	49,890.00	42,389.87	.....	11,022	1,440	243	.....	12,705	10.9	14,708.0
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# STATEMENT

## Condensed Operating Reports of Electrical Departments

## TRENT

Municipality	Population	Power purchased	Operation and maintenance	Debenture charges and interest	Total cost of operation	Revenue	Gross surplus
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Bloomfield.....	625	3,055.07	460.46	788.09	4,303.62	6,410.38	2,106.76
Havelock.....	1,255	4,125.96	1,209.07	2,793.06	8,128.09	10,134.68	2,006.59
Kingston.....	21,975	75,518.62	69,714.55	22,373.06	167,606.23	215,337.51	47,731.28
Lakefield.....	1,250	4,709.30	1,470.70	2,253.93	8,433.93	11,337.51	2,903.58
Marmora.....	794	1,803.54	585.55	1,546.98	3,936.07	5,690.31	1,754.24
Norwood.....	765	2,539.35	1,026.34	2,625.92	6,191.61	7,860.76	1,669.15
Omemece.....	450	5,722.46	775.93	1,046.25	7,544.64	7,158.20	.....
Peterboro.....	21,605	104,407.46	45,692.58	29,396.02	179,496.06	207,648.48	28,152.42
Picton.....	3,135	14,540.07	6,989.21	359.01	21,888.29	32,836.99	10,948.70
Warkworth....	P.V.	1,370.27	248.01	959.34	2,577.62	4,234.79	1,657.17
Wellington....	812	3,179.69	832.95	1,365.46	5,378.10	8,702.70	3,324.60
Whitby.....	4,174	14,967.47	5,756.50	4,229.80	24,953.77	33,106.19	8,152.42
Total.....	57,340	235,939.26	134,761.85	69,736.92	440,438.03	550,458.50	110,406.91

## ALL SYSTEMS

System							
Niagara.....	1191138	8,194,169.10	3,572,421.75	2,597,844.36	14,364,435.21	15,964,746.80	1,600,395.84
Georgian Bay..	80,694	473,715.68	107,634.68	86,863.37	668,213.73	814,998.64	147,990.41
Muskoka.....	3,895	32,695.32	8,238.94	5,640.12	46,574.38	53,845.32	7,270.94
St. Lawrence...	19,055	100,161.92	34,253.12	23,219.86	157,634.90	204,932.35	48,581.98
Rideau.....	16,322	98,052.19	25,692.63	29,786.26	153,531.08	179,441.24	25,910.16
Thunder Bay..	15,681	383,659.32	65,483.95	27,368.06	476,511.33	584,195.66	107,684.33
Ottawa.....	116,205	151,396.61	140,097.26	62,331.18	353,825.05	446,104.92	92,279.87
Trent.....	57,340	235,939.26	134,761.85	69,736.92	440,438.03	550,458.50	110,406.91
Grand Total...	1500330	9,669,789.40	4,088,584.18	2,902,790.13	16,661,163.71	18,798,723.43	2,140,520.44

NOTE.—Police Villages taken as 500 population and Townships as 2,000 population.

“ B ”—Continued

of Hydro Municipalities for Year Ended December 31, 1924

SYSTEM

Gross deficit	Deprecia- tion	Net surplus	Net deficit	Number of consumers					Per cent of con- sumers to popu- lation	Horse- power taken in Dec., 1924
				Dom. light	Com'l light	Po- wer	Rural	Total		
\$ c.	\$ c.	\$ c.	\$ c.							
.....	261.00	1,845.76	.....	120	19	6	6	151	24.2	65.7
.....	573.00	1,433.59	.....	261	51	2	.....	314	25.0	219.3
.....	9,560.00	38,171.28	.....	4,226	854	138	.....	5,218	23.7	3,189.6
.....	604.00	2,299.58	.....	214	71	3	.....	288	23.0	118.6
.....	363.00	1,391.24	.....	131	44	4	.....	179	22.5	63.2
.....	693.00	976.15	.....	187	70	2	.....	259	33.9	136.0
386.44	370.00	.....	756.44	110	33	7	.....	150	33.3	150.5
.....	9,788.68	18,363.74	.....	5,266	766	134	.....	6,166	28.5	5,415.5
.....	1,000.62	9,948.08	.....	816	187	41	.....	1,044	33.3	455.7
.....	123.00	1,534.17	.....	58	27	.....	.....	85	.....	39.5
.....	436.10	2,888.50	.....	202	48	7	10	267	32.9	84.7
.....	1,219.00	6,933.42	.....	660	127	11	.....	798	19.0	761.4
386.44	24,991.40	85,785.51	756.44	12,251	2,297	355	16	14,919	.....	10,699.7

—SUMMARY

84.25	825,845.55	787,722.44	13,256.40	264,006	41,067	7,362	1,101	313,536	.....	332,598.9
1,205.50	37,342.35	112,394.71	2,952.15	14,998	3,956	549	131	19,634	.....	14,117.51
.....	2,154.00	5,116.94	.....	791	163	20	.....	974	.....	1,480.44
1,284.53	6,471.75	42,413.01	1,587.31	3,519	872	117	4	4,512	.....	2,484.79
.....	8,209.00	17,701.16	.....	3,190	699	83	24	3,996	.....	2,453.39
.....	18,745.57	88,938.76	.....	3,389	663	80	.....	4,132	.....	23,739.0
.....	49,890.00	42,389.87	.....	11,022	1,440	243	.....	12,705	.....	14,708.0
386.44	24,991.40	85,785.51	756.44	12,251	2,297	355	16	14,919	.....	10,699.7
2,960.72	973,649.62	1,182,462.40	18,552.30	313,166	51,157	8,809	1,276	374,408	.....	402,281.7



## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM

Municipality .....	Acton	Agincourt P.V.	Ailsa Craig	Alvinston	Ancaster Township
Population.....	1,649		514	657	
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
<b>EARNINGS</b>					
Domestic service .....	6,488.68	2,329.95	1,528.12	2,937.84	12,764.29
Commercial light.....	2,649.50	394.30	810.37	2,136.23	1,340.19
Commercial power.....	9,740.55	926.19	4,125.76	3,563.72	541.13
Municipal power.....	731.79			467.53	
Street lighting .....	2,120.00	690.00	639.00	1,720.00	840.00
Rural service .....			87.28		
Miscellaneous.....		132.75			
Total earnings.....	21,730.52	4,473.19	7,190.53	10,825.32	15,485.61
<b>EXPENSES</b>					
Power purchased.....	13,675.05	1,488.63	5,533.72	5,353.00	4,816.57
Substation operation .....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	2,171.94	54.85	166.04	112.80	1,803.00
Line transformer maintenance.....					
Meter maintenance.....	10.15				
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	260.70	50.83	22.57	103.48	196.47
Promotion of business.....	361.23				
Billing and collecting.....					
General office, salaries and expenses.	1,233.10	260.51	149.21	368.65	1,467.31
Undistributed expenses.....	210.74				
Interest.....	21.26	466.48	75.66	1,147.02	1,271.43
Sinking fund and principal payments on debentures .....	419.67	321.35	171.86	932.05	271.48
Total expenses.....	18,363.84	2,642.65	6,119.06	8,017.00	9,826.26
Gross surplus.....	3,366.68	1,830.54	1,071.47	2,808.32	5,659.35
Gross loss.....					
Depreciation.....	819.00	184.00	328.00	442.00	816.00
Net surplus.....	2,547.68	1,646.54	743.47	2,366.32	4,843.35
Net loss.....					

## " C "

## Hydro Municipalities for Year Ended December 31, 1924

Aylmer 2,222	Ayr 811	Baden P.V.	†Barton Township	Beachville P.V.	Belle River 560	Blenheim 1,553	*Blyth 646
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,505.68	2,467.40	1,463.32	15,522.23	1,072.83	3,826.75	4,537.83	1,028.20
4,420.06	1,173.64	517.92	1,425.99	584.43	1,010.86	3,221.33	506.84
3,542.81	1,758.33	6,851.39	3,820.54	13,811.28	108.52	7,729.51	181.43
1,764.49							
2,604.00	1,092.00	549.00	1,267.00	495.00	1,080.00	2,482.00	922.50
48.80				372.66			
19,885.84	6,491.37	9,381.63	22,035.76	16,336.20	6,026.13	17,970.67	2,638.97
10,509.61	2,744.61	7,599.59	9,982.08	12,564.62	2,242.23	10,688.43	1,444.83
1,049.45							
1,858.14	775.07	81.25	742.74	185.70	226.43	1,134.40	
			38.00				
			44.80				
124.38	71.95	101.90	96.49	53.49	44.90	284.39	12.00
944.68	177.61	463.23	4,051.96	318.17	308.12	876.97	209.95
1,108.42	211.31	11.25	152.25				
790.56	743.94	95.33	2,718.62		459.57	711.34	
16,385.24	4,724.49	135.15	2,061.55	143.77	231.07	282.24	
3,500.60	1,766.88	893.93	2,147.27	3,070.45	2,513.81	3,992.90	972.19
755.00	410.00	325.00	1,253.00	456.00	278.00	822.00	
2,745.60	1,356.88	568.93	894.27	2,614.45	2,235.81	3,170.90	972.19

† Nine months' operation only.

\*Four months' operation only.

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Bolton	Bothwell	Brampton	Brantford	Brantford Township
Population.....	664	647	4,778	30,109	
EARNINGS					
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,520.15	2,527.96	19,981.44	101,846.38	13,311.64
Commercial light.....	1,215.44	1,229.04	8,331.81	25,042.59	3,061.06
Commercial power.....	4,452.75	6,411.39	18,167.86	85,709.45	5,248.17
Municipal power.....		146.63	2,233.88	29,956.64	
Street lighting.....	932.00	1,105.00	4,286.00	34,705.62	3,497.57
Rural service.....				5,191.78	
Miscellaneous.....		26.66	99.49		32.68
Total earnings.....	9,120.34	11,446.68	53,100.48	282,452.46	25,151.12
EXPENSES					
Power purchased.....	5,223.96	6,801.09	36,252.77	179,393.19	9,787.38
Substation operation.....				4,724.41	
Substation maintenance.....			1,429.04	629.36	
Distribution system, operation and maintenance.....	144.38	90.10	1,342.90	2,521.18	755.61
Line transformer maintenance.....			73.65	1,285.81	
Meter maintenance.....			81.70	1,871.94	
Consumers' premises expenses.....				451.39	
Street lighting, operation and maintenance.....	54.50	113.53	467.93	5,825.69	412.37
Promotion of business.....				1,827.35	
Billing and collecting.....			2,360.74	6,621.82	
General office, salaries and expenses.....	633.40	642.52	2,607.86	7,977.90	3,558.62
Undistributed expenses.....			231.15	4,364.30	558.29
Interest.....	733.43	826.33	844.81	21,043.41	2,387.39
Sinking fund and principal payments on debentures.....	340.43	100.80	2,767.68	16,721.00	2,188.10
Total expenses.....	7,130.10	8,574.37	48,460.23	255,258.75	19,647.76
Gross surplus.....	1,990.24	2,872.31	4,640.25	27,193.71	5,503.36
Gross loss.....					
Depreciation.....	520.00	412.00	1,272.00	14,995.03	1,494.00
Net surplus.....	1,470.24	2,460.31	3,368.25	12,198.68	4,009.36
Net loss.....					



## " C "—Continued

## Hydro Municipalities for Year Ended December 31, 1924

Brigden P.V.	*Brussels 890	Burford P.V.	Burgessville P.V.	Caledonia 1,326	Chatham 15,084	Chippawa 1,078	†Clifford 467
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,880.91	1,739.64	3,868.60	917.77	1,644.39	55,578.51	3,814.34	930.03
1,330.11	1,005.46	1,396.71	292.51	2,226.66	36,375.01	752.04	748.84
1,836.86	206.87	881.39	1,177.05	2,658.41	68,542.69	766.23	60.40
.....	.....	.....	.....	.....	3,477.08	.....	.....
925.00	880.00	960.00	330.00	1,087.20	16,850.29	900.00	690.63
50.00	.....	63.41	.....	.....	1,129.38	.....	.....
6,022.88	3,831.97	7,170.11	2,717.33	7,616.66	181,952.96	6,232.61	2,429.90
4,367.88	2,052.38	3,527.86	1,717.48	4,316.26	92,412.84	2,620.22	1,504.49
.....	.....	.....	.....	.....	7,492.84	.....	.....
.....	.....	.....	.....	.....	271.54	.....	.....
440.19	.....	728.20	71.11	468.23	3,342.48	352.54	.....
.....	.....	.....	.....	.....	357.14	.....	.....
.....	.....	.....	.....	.....	630.59	.....	.....
56.35	.....	49.38	.....	58.39	3,680.43	191.72	.....
.....	.....	.....	.....	.....	6,760.20	.....	.....
356.74	190.31	524.94	89.33	683.70	12,507.25	962.07	170.31
200.89	364.29	392.16	140.84	341.33	4,287.96	.....	.....
166.88	.....	538.05	151.74	142.39	15,519.90	800.26	6.10
5,588.93	2,606.98	5,760.59	2,170.50	6,010.30	6,553.26	424.13	.....
433.95	1,224.99	1,409.52	546.83	1,606.36	28,136.53	881.67	749.00
229.00	.....	296.00	113.00	447.00	8,812.00	436.00	.....
204.95	1,224.99	1,113.52	433.83	1,159.36	19,324.53	445.67	749.00

\*Four months' operation only.

†Five and one-half months' operation only.

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued \*

Municipality .....	Clinton	Comber P.V.	Courtright	Dashwood P.V.	Delaware P.V.
Population.....	1,922		441		
<b>EARNINGS</b>					
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	7,232.03	1,789.74	1,993.89	1,014.24	822.45
Commercial light.....	4,032.42	1,634.10	687.47	719.78	463.73
Commercial power.....	7,298.43	3,923.90		1,191.47	
Municipal power.....	845.18				
Street lighting.....	1,883.00	658.37	1,200.00	615.00	378.00
Rural service.....					
Miscellaneous.....	74.76				
Total earnings.....	21,365.82	8,006.11	3,881.36	3,540.49	1,664.18
<b>EXPENSES</b>					
Power purchased.....	12,078.77	5,701.02	1,638.82	2,764.51	761.32
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	399.92	207.06	64.59	7.22	62.97
Line transformer maintenance.....					
Meter maintenance.....					
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	390.21	67.91	14.65	46.58	51.00
Promotion of business.....					
Billing and collecting.....					
General office, salaries and expenses.	2,673.16	439.11	187.79	244.44	51.78
Undistributed expenses.....					
Interest.....	1,803.93	262.94	490.57	164.07	167.05
Sinking fund and principal payments on debentures.....	972.49	363.44	351.27	68.28	93.41
Total expenses.....	18,318.48	7,041.48	2,747.69	3,295.10	1,187.53
Gross surplus.....	3,047.34	964.63	1,133.67	245.39	476.65
Gross loss.....					
Depreciation.....	1,165.00	262.00	135.00	113.00	100.00
Net surplus.....	1,882.34	702.63	998.67	132.39	376.65
Net loss.....					





## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality .....	Dutton	Elmira	Elora	Embros	*Erieau
Population.....	823	2,392	1,079	475	153
EARNINGS					
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,520.42	8,369.49	3,871.46	1,725.67	570.58
Commercial light.....	1,981.25	3,953.15	2,924.40	1,096.89	35.06
Commercial power.....	3,489.52	13,149.08	7,123.10	1,923.51	153.88
Municipal power.....		620.28			
Street lighting.....	1,019.04	2,017.00	1,302.00	769.30	185.54
Rural service.....	71.30				
Miscellaneous.....	56.91	80.00	67.61		
Total earnings.....	9,138.44	28,189.00	15,288.57	5,515.37	945.06
EXPENSES					
Power purchased.....	5,619.36	18,444.31	9,696.39	3,416.10	428.52
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	124.04	1,592.47	2,030.57	74.57	0.96
Line transformer maintenance.....					
Meter maintenance.....					
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	165.11	79.93	172.00	97.06	14.95
Promotion of business.....					
Billing and collecting.....					
General office, salaries and expenses.....	1,049.51	1,850.99	1,061.09	214.06	39.68
Undistributed expenses.....		104.30			
Interest.....	169.66	876.79	452.54	372.75	
Sinking fund and principal payments on debentures.....	201.60	453.05	466.46	257.40	
Total expenses.....	7,329.28	23,401.84	13,879.05	4,431.94	484.11
Gross surplus.....	1,809.16	4,787.16	1,409.52	1,083.43	460.95
Gross loss.....					
Depreciation.....	388.00	1,166.00	753.00	298.00	
Net surplus.....	1,421.16	3,621.16	656.52	785.43	460.95
Net loss.....					

\* Four months' operation only.

## " C "—Continued

## Hydro Municipalities for Year Ended December 31, 1924

†Essex 1,591	Etobicoke Township	Exeter 1,531	Fergus 1,762	Ford City 5,724	Forest 1,437	Galt 13,222	George- town 1,973
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
9,750.25	47,492.23	6,249.74	5,889.68	35,396.27	6,317.65	84,140.65	6,837.95
7,609.52	6,896.50	2,906.20	2,977.59	10,570.87	3,299.32	29,210.79	3,941.28
6,047.57	5,596.82	5,778.57	5,999.08	35,605.01	4,623.96	73,178.03	16,991.72
.....	770.93	640.38	670.13	.....	84.49	7,957.63	750.68
1,868.80	7,971.05	2,075.57	1,999.13	1,849.00	2,443.93	20,727.75	2,136.00
.....	.....	.....	.....	.....	.....	.....	2,259.57
109.84	43.30	1,283.90	.....	.....	131.04	3,600.00	.....
25,385.98	68,770.83	18,934.36	17,535.61	83,421.15	16,900.39	218,814.85	32,917.20
9,055.42	27,028.18	10,785.82	9,544.91	49,160.39	7,828.27	124,149.81	21,654.42
.....	.....	.....	.....	.....	.....	5,169.91	.....
.....	.....	.....	.....	.....	.....	789.91	.....
556.15	5,064.20	171.05	2,330.11	4,861.41	2,254.28	3,861.27	2,113.63
342.04	2.23	.....	240.85	.....	.....	67.70	.....
49.27	174.64	.....	12.73	.....	.....	185.82	.....
.....	.....	.....	.....	.....	.....	.....	.....
222.16	314.68	259.42	126.97	515.18	154.90	3,715.98	227.20
.....	.....	.....	.....	.....	.....	2,072.15	.....
291.01	3,249.99	.....	.....	.....	.....	2,651.85	.....
1,756.77	3,857.88	2,471.11	1,102.82	4,793.75	1,021.28	6,928.08	2,359.51
172.13	1,940.82	.....	334.11	.....	.....	3,510.64	145.56
2,176.60	10,173.30	673.62	1,343.63	5,858.68	769.45	29,430.87	562.58
.....	3,743.07	619.13	1,419.79	2,561.05	1,601.70	15,765.53	453.05
14,621.55	55,548.99	14,980.15	16,455.92	67,750.46	13,629.88	198,299.52	27,515.95
10,764.43	13,221.84	3,954.21	1,079.69	15,670.69	3,270.51	20,515.33	5,401.25
.....	.....	.....	.....	.....	.....	.....	.....
785.00	5,357.00	762.00	900.00	2,335.00	861.00	14,544.52	1,335.00
9,979.43	7,864.84	3,192.21	179.69	13,335.69	2,409.51	5,970.81	4,066.25
.....	.....	.....	.....	.....	.....	.....	.....

† Fourteen months' operation.

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Glencoe	Goderich	Grantham Township §	Granton P.V.	Guelph
Population.....	840	4,220			18,420
<b>EARNINGS</b>					
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	3,033.99	16,425.61		1,179.58	67,385.61
Commercial light.....	2,165.83	8,030.31		525.30	34,181.62
Commercial power.....	3,606.15	18,446.68		1,706.48	99,232.57
Municipal power.....		4,602.54			22,581.83
Street lighting.....	2,091.00	4,223.00		416.00	10,950.60
Rural service.....			7,590.67		
Miscellaneous.....	88.00	293.29		22.00	6,026.01
Total earnings.....	10,984.97	52,021.43	7,590.67	3,849.36	240,358.24
<b>EXPENSES</b>					
Power purchased.....	5,439.38	32,169.06	2,809.31	2,738.48	139,891.84
Substation operation.....		3,467.04			3,611.55
Substation maintenance.....					
Distribution system, operation and maintenance.....	545.13	1,216.02	742.92	195.57	6,097.14
Line transformer maintenance.....		22.93			2,466.67
Meter maintenance.....		25.02			2,192.57
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	58.78	212.58		5.50	4,047.48
Promotion of business.....					3,299.87
Billing and collecting.....		746.99			5,250.09
General office, salaries and expenses..	695.22	1,623.26	650.28	116.86	4,202.29
Undistributed expenses.....		647.06			6,189.92
Interest.....	880.67	1,916.79	2,731.43	190.75	3,063.77
Sinking fund and principal payments on debentures.....	606.18	1,590.92	403.47	70.56	4,409.18
Total expenses.....	8,225.36	43,637.67	7,337.41	3,317.72	184,722.37
Gross surplus.....	2,759.61	8,383.76	253.26	531.64	55,635.87
Gross loss.....					
Depreciation.....	542.00	3,286.00	907.20	149.00	9,799.00
Net surplus.....	2,217.61	5,097.76		382.64	45,836.87
Net loss.....			653.94		

§ Nine months' operation only.



## "C"—Continued

## Hydro Municipalities for Year Ended December 31, 1924

Hagers- ville 1,155	Hamilton 120,234	Harriston 1,318	*Harrow P.V.	Hensall 705	Hespeler 2,907	Highgate 414	†Humber- stone 1,428
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,079.32	389,531.34	3,944.02	4,267.96	3,033.50	9,866.44	1,236.81	585.09
2,728.18	111,271.35	2,869.88	3,542.79	1,489.20	3,650.37	915.45	359.97
20,923.64	266,032.24	7,372.59	3,426.58	2,833.37	16,716.28	1,710.31	155.47
.....	71,724.43	595.54	.....	.....	958.97	.....	.....
800.00	84,774.84	1,303.33	655.47	975.00	1,971.33	540.00	130.50
.....	.....	.....	.....	.....	.....	.....	.....
16.60	19,640.88	.....	58.69	.....	10.40	1.47	.....
27,547.74	942,975.08	16,085.36	11,951.49	8,331.07	33,173.79	4,404.04	1,231.03
22,165.84	582,374.88	10,090.67	4,193.04	4,064.97	17,803.24	2,883.36	606.10
.....	29,472.77	.....	.....	.....	639.32	.....	.....
.....	593.92	.....	.....	.....	.....	.....	.....
3,016.51	22,046.76	870.93	296.57	103.46	2,033.84	226.53	292.00
.....	2,745.79	.....	83.64	.....	.....	.....	.....
.....	13,099.96	.....	55.07	.....	7.50	.....	.....
.....	6,619.84	.....	.....	.....	.....	.....	.....
113.72	10,101.29	115.93	75.74	112.70	30.75	73.90	23.80
.....	7,192.93	.....	.....	.....	.....	.....	.....
.....	32,326.81	.....	.....	.....	.....	.....	.....
1,097.95	37,259.76	709.98	792.93	559.57	1,545.61	284.18	106.44
44.25	15,076.77	32.08	.....	.....	559.20	.....	.....
137.78	97,610.40	673.46	1,411.71	513.60	1,467.88	135.52	.....
240.93	62,878.48	843.07	.....	269.51	1,730.32	105.89	.....
26,816.98	919,400.36	13,336.12	6,908.70	5,623.81	25,817.66	3,709.38	1,028.34
730.76	23,574.72	2,749.24	5,042.79	2,707.26	7,356.13	694.66	202.69
522.00	34,911.27	598.00	386.00	375.00	1,494.00	198.00	.....
208.76	.....	2,151.24	4,656.79	2,332.26	5,862.13	496.66	202.69
.....	11,336.55	.....	.....	.....	.....	.....	.....

\* Fourteen months' operation.

† Two months' operation only.

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality .....	Ingersoll	†Jarvis	*Kingsville	Kitchener	Lambeth P.V.
Population.....	5,002	475	1,990	23,571	
EARNINGS					
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	23,120.72	728.35	14,471.65	99,430.08	2,629.81
Commercial light.....	10,499.86	837.73	10,878.69	52,442.55	603.59
Commercial power.....	24,924.38	3,003.12	6,031.06	181,645.64	331.53
Municipal power.....	1,661.00			26,477.20	
Street lighting.....	5,023.42	696.66	2,878.88	25,632.47	559.00
Rural service.....					
Miscellaneous.....	631.96		221.06	5,185.89	
Total earnings.....	65,861.34	5,265.86	34,481.34	390,813.83	4,123.93
EXPENSES					
Power purchased.....	40,064.45	2,842.39	13,175.97	251,260.09	2,506.15
Substation operation.....	1,297.91			7,993.43	
Substation maintenance.....				1,162.81	
Distribution system, operation and maintenance.....	1,525.22	34.00	2,256.50	16,457.00	81.63
Line transformer maintenance.....	146.50		66.64	575.52	
Meter maintenance.....	36.63		55.67	1,861.94	
Consumers' premises expenses.....				55.75	
Street lighting, operation and main- tenance.....	1,126.17	27.20	224.36	7,062.09	17.96
Promotion of business.....	2,077.67			346.17	
Billing and collecting.....	1,771.01		908.18	6,620.75	
General office, salaries and expenses.....	1,968.69	436.08	1,145.06	8,369.81	189.01
Undistributed expenses.....	1,610.68		457.26	6,303.18	
Interest.....	2,512.95	644.50	3,237.16	11,389.97	184.51
Sinking fund and principal payments on debentures.....	1,677.35	301.13		12,816.82	80.64
Total expenses.....	55,815.23	4,285.30	21,526.80	332,275.33	3,059.90
Gross surplus.....	10,046.11	980.56	12,954.54	58,538.50	1,064.03
Gross loss.....					
Depreciation.....	3,008.00		990.00	17,961.99	204.00
Net surplus.....	7,038.11	980.56	11,964.54	40,576.51	860.03
Net loss.....					

\* Fourteen months' operation.

† Nine months' operation only.

## " C "—Continued

## Hydro Municipalities for Year Ended December 31, 1924

Leaming- ton* 3,969	Listowel 2,431	London 61,369	London Twp. 	Louth Twp. 	Lucan 602	Lynden P.V. 	Markham 967
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
24,190.62	8,894.23	278,264.74	6,520.43	.....	3,075.29	1,392.88	3,515.80
17,782.24	4,719.75	115,523.61	748.14	.....	997.64	496.05	1,631.67
7,666.61	9,549.15	307,441.27	258.11	.....	2,344.64	4,282.78	2,649.80
.....	1,100.00	27,992.57	.....	.....	.....	.....	198.29
4,294.03	3,675.00	39,270.32	.....	.....	1,005.00	396.05	1,785.00
.....	306.78	3,941.62	.....	888.15	47.65	.....	.....
155.31	.....	17,735.67	.....	.....	34.18	.....	.....
54,088.81	28,244.91	790,169.80	7,526.68	888.15	7,504.40	6,567.76	9,780.56
15,161.90	16,182.76	456,941.47	2,979.57	.....	5,355.71	5,003.30	4,575.96
.....	.....	14,637.10	.....	.....	.....	.....	.....
.....	.....	14,484.65	.....	.....	.....	.....	.....
2,700.21	468.74	13,780.59	104.94	132.79	983.08	123.38	1,311.40
228.15	.....	4,079.13	.....	.....	.....	.....	.....
125.37	87.72	13,985.64	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
418.99	455.00	5,336.60	.....	.....	54.50	35.43	82.63
.....	.....	6,007.39	.....	.....	.....	.....	.....
497.16	.....	20,449.49	.....	.....	.....	.....	.....
3,653.19	3,801.05	38,177.22	550.18	108.00	785.66	142.10	774.40
752.85	.....	28,255.26	.....	.....	.....	.....	.....
4,768.76	1,557.12	68,661.76	616.50	460.99	.....	206.03	433.61
.....	2,284.67	46,292.21	430.29	62.34	409.70	95.22	689.91
28,306.58	24,837.06	731,088.51	4,681.48	764.12	7,588.65	5,605.46	7,867.91
25,782.23	3,407.85	59,081.29	2,845.20	124.03	.....	962.30	1,912.65
.....	.....	.....	.....	.....	84.25	.....	.....
1,493.00	1,455.00	57,277.83	238.00	96.13	421.00	166.00	398.00
24,289.23	1,952.85	1,803.46	2,607.20	27.90	.....	796.30	1,514.65
.....	.....	.....	.....	.....	505.25	.....	.....



## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Merlin P.V.	Merritton	Milton	Milverton	Mimico
Population.....		2,591	1,900	1,056	4,137
EARNINGS					
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	1,846.42	7,907.99	7,524.78	3,106.06	28,280.20
Commercial light.....	1,178.25	1,667.74	4,132.06	2,394.26	5,442.68
Commercial power.....	4,301.85	9,594.88	27,868.66	13,118.83	4,785.29
Municipal power.....				297.67	4,422.35
Street lighting.....	736.16	2,822.50	1,900.84	1,054.08	3,955.91
Rural service.....					
Miscellaneous.....			461.99		
Total earnings.....	8,062.68	21,993.11	41,888.33	19,970.90	46,886.43
EXPENSES					
Power purchased.....	4,071.66	12,469.19	32,793.41	15,667.44	28,132.07
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	119.72	4,006.78	1,782.43	418.82	6,517.10
Line transformer maintenance.....			197.81		
Meter maintenance.....					
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	32.40	353.13	61.12	109.80	500.50
Promotion of business.....					
Billing and collecting.....					
General office, salaries and expenses.	412.01	1,628.43	1,858.30	759.05	3,510.83
Undistributed expenses.....		150.00	206.87		314.10
Interest.....	491.16	359.70	1,064.18	434.66	3,111.12
Sinking fund and principal payments on debentures.....	397.64	628.72	1,034.50	418.20	1,488.45
Total expenses.....	5,524.59	19,595.95	38,998.62	17,807.97	43,574.17
Gross surplus.....	2,538.09	2,397.16	2,889.71	2,162.93	3,312.26
Gross loss.....					
Depreciation.....	239.00	685.00	1,104.00	474.00	2,783.00
Net surplus.....	2,299.09	1,712.16	1,785.71	1,688.93	529.26
Net loss.....					

## " C "—Continued

## Hydro Municipalities for Year Ended December 31, 1924

Mitchell 1,739	Moorefield P.V.	Mount Brydges P.V.	Newbury 307	New Hamburg 1,390	New Toronto 3,182	Niagara Falls 15,404	Niagara on-the-Lake 1,714
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,988.37	837.08	1,645.47	728.47	4,806.71	15,544.79	93,779.71	5,712.98
3,372.66	683.24	537.95	583.12	2,325.57	6,349.73	36,889.06	2,387.66
6,133.81	1,549.91	935.82	920.14	10,101.95	63,764.14	43,760.54	816.99
800.00					11,777.77	11,580.74	1,693.57
2,191.79	475.00	487.50	828.00	2,640.00	4,493.75	20,144.44	2,252.37
1,206.87				1,205.62	112.26	1,542.61	
20,693.50	3,545.23	3,606.74	3,059.73	21,079.85	102,042.44	207,697.10	12,863.57
9,978.38	2,601.85	1,823.35	1,288.22	12,514.20	73,835.09	105,008.31	5,858.39
277.43						6,412.81	
646.20	38.84	78.74	21.80	1,720.10	5,407.75	6,024.96	2,628.58
						641.68	
						3,730.73	
378.10	78.54	38.28	75.75	117.43	519.00	4,245.93	381.95
2,141.58	61.01	249.78	224.80	1,268.72	4,684.24	4,976.00	
14.00						6,690.63	1,420.45
143.87	189.63	108.50	494.18	644.21	139.39	6,580.29	
665.58	175.74	94.34	300.00	510.86	196.15	19,456.12	553.78
14,245.14	3,145.61	2,392.99	2,404.75	16,775.52	84,781.62	182,371.67	1,194.57
6,448.36	399.62	1,213.75	654.98	4,304.33	17,260.82	25,325.43	12,037.72
1,732.00	113.00	179.00	179.00	413.00	1,944.00	12,748.00	825.85
4,716.36	286.62	1,034.75	475.98	3,891.33	15,316.82	12,577.43	612.00
							213.85

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	North York Township *	Norwich	Oil Springs	Otterville P.V.	Palmerston
Population.....	*	1,315	469		1,820
EARNINGS					
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	14,797.22	5,346.88	947.40	1,505.25	5,407.81
Commercial light.....	1,798.39	2,739.80	731.22	744.13	3,408.02
Commercial power.....	1,720.29	2,619.81	11,511.05	1,368.58	5,831.72
Municipal power.....	2,040.43	1,184.08			1,020.14
Street lighting.....	109.62	2,290.75	688.00	377.00	2,070.00
Rural service.....		12,874.85			
Miscellaneous.....	25.53		297.23		
Total earnings.....	20,491.48	27,056.17	14,174.90	3,994.96	17,737.69
EXPENSES					
Power purchased.....	8,566.43	11,588.63	8,783.63	2,057.76	10,817.05
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	2,985.01	2,251.60	1,096.56	145.39	492.23
Line transformer maintenance.....		22.70			
Meter maintenance.....		126.72			
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	10.65	229.90	12.00	29.65	261.39
Promotion of business.....					1,419.89
Billing and collecting.....					
General office, salaries and expenses.....	2,285.92	1,301.86	403.31	411.54	1,618.18
Undistributed expenses.....	586.96	5,194.36			171.40
Interest.....	3,073.38	129.52	716.08	25.31	86.41
Sinking fund and principal payments on debentures.....	2,007.55	364.42	667.78	194.98	899.55
Total expenses.....	19,515.90	21,209.71	11,679.36	2,864.63	15,766.10
Gross surplus.....	975.58	5,846.46	2,495.54	1,130.33	1,971.59
Gross loss.....					
Depreciation.....	920.00	1,795.00	493.00	204.00	775.00
Net surplus.....	55.58	4,051.46	2,002.54	926.33	1,196.59
Net loss.....					

\* Thirteen months' operation.



## " C "—Continued

## Hydro Municipalities for Year Ended December 31, 1924

Paris 4,345	Parkhill 1,192	Petrolia 2,836	Plattsville P.V.	Point Edward 1,116	Port Colborne 3,624	Port Credit 1,134	Port Dalhousie 1,467
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
16,280.06	3,187.40	7,856.97	1,707.29	3,705.98	13,171.21	5,385.95	8,464.36
5,994.11	1,872.92	5,374.97	875.11	1,286.84	6,053.01	2,126.92	1,553.27
14,465.45	1,115.90	22,927.97	682.26	9,367.70	5,280.10	1,201.68	2,654.96
1,240.00	532.67	6,618.85			925.09	748.27	
6,041.25	1,381.00	3,256.26	588.00	770.00	3,345.92	1,221.00	1,560.00
870.23		420.14			937.29		1,432.95
44,891.10	8,089.89	46,455.16	3,852.66	15,130.52	29,712.62	10,683.82	15,665.54
25,380.55	4,696.05	29,004.63	2,499.81	11,948.24	15,533.07	6,988.76	6,107.93
274.06							
2,614.48	279.24	2,033.71	59.00	160.48	1,658.41	700.46	1,607.20
.31		422.37					
13.70		115.27		28.99			
618.70	68.33	432.97	19.80	52.70	278.16	59.02	129.65
402.35							
859.71	432.07	4,315.14	146.76	677.70	3,833.17	963.90	1,084.20
669.64		1,210.94			605.09		
1,986.09	658.28	1,796.11	269.54	332.49	3,574.98	202.50	1,051.33
4,130.62	436.56	1,354.69	122.29	303.27	2,189.19	202.75	870.59
36,950.21	6,570.53	40,685.83	3,117.20	13,503.87	27,672.07	9,117.39	10,850.90
7,940.89	1,519.36	5,769.33	735.46	1,626.65	2,040.55	1,566.43	4,814.64
3,422.00	448.00	1,815.00	70.00	495.00	1,500.00	688.00	515.00
4,518.89	1,071.36	3,954.33	665.46	1,131.65	540.55	878.43	4,299.64

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Port Dover 1,573	Port Stanley 726	Preston 5,576	Princeton P.V.	Queenston P.V.
Population.....					
EARNINGS					
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	4,539.61	7,608.09	28,958.51	2,093.16	1,662.87
Commercial light.....	2,740.98	2,057.60	14,326.44	272.61	131.05
Commercial power.....	862.05	4,178.26	46,581.73	445.96	675.01
Municipal power.....	515.54	615.00	1,152.49		
Street lighting.....	2,235.00	2,145.00	5,450.35	420.00	494.76
Rural service.....					
Miscellaneous.....		82.15	163.44		66.22
Total earnings.....	10,893.18	16,686.10	96,632.96	3,231.73	3,029.91
EXPENSES					
Power purchased.....	4,285.75	8,875.39	57,990.76	1,714.78	1,578.83
Substation operation.....			3,839.60		
Substation maintenance.....			1,238.79		
Distribution system, operation and maintenance.....	297.31	1,005.67	2,492.84	112.84	
Line transformer maintenance.....			19.35		
Meter maintenance.....			77.74		
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	295.75	524.20	857.25	17.23	44.09
Promotion of business.....					
Billing and collecting.....			1,011.18		
General office, salaries and expenses.....	589.24	1,801.20	1,353.38	36.11	267.22
Undistributed expenses.....			1,830.85		
Interest.....	1,496.63	605.69	4,637.65	158.11	543.77
Sinking fund and principal payments on debentures.....	1,301.26	529.68	6,061.64	82.89	244.37
Total expenses.....	8,265.94	13,341.83	81,411.03	2,121.96	2,678.28
Gross surplus.....	2,627.24	3,344.27	15,221.93	1,109.77	351.63
Gross loss.....					
Depreciation.....	668.00	883.00	4,849.21	122.00	194.00
Net surplus.....	1,959.24	2,461.27	10,372.72	987.77	157.63
Net loss.....					

“ C ”—Continued

Hydro Municipalities for Year Ended December 31, 1924

Ridgetown 1,947	Riverside 3,034	Rockwood P.V.	Rodney 711	St. Catharines 21,194	St. Clair Beach 131	St. George P.V.	St. Jacobs P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,625.27	21,863.35	1,724.71	1,971.73	89,008.31	1,419.21	1,584.38	1,560.32
3,392.08	2,097.49	457.78	1,321.17	17,302.65	3,302.33	586.63	741.47
5,530.10	2,964.82	1,253.55	2,313.33	59,232.46	298.81	2,427.70	613.48
838.20							
2,427.96	1,620.00	804.25	1,062.72	21,998.78		315.00	480.00
92.92		55.80		933.72		135.61	
17,906.53	28,545.66	4,296.09	6,668.95	188,475.92	5,020.35	5,049.32	3,395.27
10,392.46	12,098.39	2,784.39	3,204.43	106,367.48	1,573.03	3,171.97	2,175.43
				4,683.03			
				1,063.65			
1,503.51	2,970.25	224.78	209.35	13,091.72	228.64	37.22	74.56
65.65				969.06			
				1,218.29			
58.29	774.14	114.88	91.81	4,109.12		35.40	26.86
				795.00			
				5,359.79			
1,681.73	2,522.10	472.48	326.26	11,007.41	161.70	438.88	324.51
648.56				5,106.89			
	2,510.10		85.95	9,417.48	413.54		131.39
1,043.98	1,234.52		170.69	6,867.31	181.53	134.11	237.29
15,394.18	22,109.50	3,596.53	4,088.49	170,056.23	2,558.44	3,817.58	2,970.04
2,512.35	6,436.16	699.56	2,580.46	18,419.69	2,461.91	1,231.74	425.23
804.00	1,181.00	290.00	295.00	10,555.00	157.00	205.00	202.00
1,708.35	5,255.16	409.56	2,285.46	7,864.69	2,304.91	1,026.74	223.23



## STATEMENT

## Detailed Operating Reports of Electrical Departments of

**NIAGARA  
SYSTEM—Continued**

Municipality.....	St. Marys	St. Thomas	Sandwich*	Sarnia
Population.....	4,017	17,779	5,010	15,176
<b>EARNINGS</b>				
	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	16,448.62	63,645.65	39,260.85	74,902.85
Commercial light.....	6,403.59	31,726.62	6,909.99	34,052.52
Commercial power.....	15,106.56	62,022.66	5,254.85	99,656.44
Municipal power.....	1,728.09	11,860.73		
Street lighting.....	4,085.00	14,687.30	4,256.64	12,141.99
Rural service.....				
Miscellaneous.....	370.65	3,039.14		3,269.64
Total earnings.....	44,142.51	186,982.10	55,682.33	224,023.44
<b>EXPENSES</b>				
Power purchased.....	27,702.09	100,920.05	36,808.79	131,788.49
Substation operation.....	1,371.21	6,046.39		3,890.23
Substation maintenance.....	10.35	479.43		693.34
Distribution system, operation and maintenance.....	1,601.16	6,500.00	1,218.86	3,361.24
Line transformer maintenance.....	73.49	21.15	126.67	878.07
Meter maintenance.....	246.59	676.20	263.19	1,940.60
Consumers' premises expenses.....		330.64		
Street lighting, operation and maintenance.....	583.21	2,906.81	1,139.85	3,066.06
Promotion of business.....		1,375.22		
Billing and collecting.....	879.47	5,148.98	2,002.69	4,245.30
General office, salaries and expenses.....	2,010.77	6,705.28	3,204.38	7,201.93
Undistributed expenses.....	939.39	10,496.37	1,183.15	8,499.43
Interest.....	2,450.94	3,735.81	3,651.68	14,431.50
Sinking fund and principal payments on debentures.....	3,106.53	5,444.35	2,326.27	11,120.08
Total expenses.....	40,975.20	150,786.68	51,925.53	191,116.27
Gross surplus.....	3,167.31	36,195.42	3,756.80	32,907.17
Gross loss.....				
Depreciation.....	1,315.00	9,958.00		11,174.00
Net surplus.....	1,852.31	26,237.42	3,756.80	21,733.17
Net loss.....				

\* Nine months' operation only.

## " C "—Continued

## Hydro Municipalities for Year Ended December 31, 1924

Scarboro' Township	Seaforth 1,902	Simcoe 4,049	Springfield 381	Stamford Township	Stouffville 1,115	Stratford 18,224
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
50,986.90	8,574.95	6,668.31	1,398.55	21,474.11	4,022.42	127,044.76
9,124.97	4,448.60	8,184.06	724.34	1,548.12	1,996.13	44,026.63
12,492.41	7,191.93	9,004.61	754.08	10,736.23	1,639.11	36,946.19
5,238.84	249.00	1,146.79				7,938.80
6,537.46	1,722.00	3,109.00	680.00	4,434.57	2,139.00	18,643.56
	42.30			2,987.07		2,650.55
84,380.58	22,228.78	28,112.77	3,556.97	41,180.10	9,796.66	237,250.49
32,439.49	13,827.53	16,767.24	2,101.15	13,548.87	3,764.73	145,935.95
						4,829.43
8,662.69	1,712.11	2,191.84	255.42	4,396.10	410.63	6,562.59
691.40		15.80				279.64
1,391.50		84.18				1,305.56
418.76	397.89	453.84	29.50	300.51	51.92	3,127.41
2,361.03		734.72				3,964.11
2,326.03	1,115.20	310.94	303.82	5,086.08	401.23	2,084.57
1,685.29		91.75		1,129.34		3,799.47
10,942.07	487.35	1,415.05	100.64	5,225.29	722.31	20,396.14
5,783.95	445.75	894.09	559.36	3,299.50	626.30	9,122.36
66,702.21	17,985.83	22,959.45	3,349.89	32,985.69	5,977.12	201,407.23
17,678.37	4,242.95	5,153.32	207.08	8,194.41	3,819.54	35,843.26
4,843.00	784.00	1,531.00	137.00	2,439.00	281.00	14,280.25
12,835.37	3,458.95	3,622.32	70.08	5,755.41	3,538.54	21,563.01

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Strathroy	Sutton	Tavistock	Tecumseh
Population.....	2,642	847	1,027	1,133
EARNINGS				
	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	10,299.07	3,621.98	3,996.35	9,257.88
Commercial light.....	5,404.58	940.37	1,663.40	2,476.90
Commercial power.....	11,032.83	424.12	2,916.92	213.94
Municipal power.....	1,162.17		446.62	
Street lighting.....	3,261.00	2,369.00	1,357.92	337.00
Rural service.....				
Miscellaneous.....	318.67			
Total earnings.....	31,478.32	7,355.47	10,381.21	12,285.72
EXPENSES				
Power purchased.....	18,593.17	3,049.35	8,533.05	4,124.08
Substation operation.....				
Substation maintenance.....				
Distribution system, operation and maintenance.....	1,071.23	369.13	468.59	1,370.62
Line transformer maintenance.....				
Meter maintenance.....				
Consumers' premises expenses.....				
Street lighting, operation and maintenance.....	578.61	84.50	74.90	105.88
Promotion of business.....				
Billing and collecting.....				
General office, salaries and expenses.....	3,759.38	440.42	731.01	1,487.50
Undistributed expenses.....				
Interest.....	1,115.52	1,382.49	14.89	1,616.29
Sinking fund and principal payments on debentures.....	1,844.92	831.70	127.07	743.59
Total expenses.....	26,962.83	6,157.59	9,949.51	9,447.96
Gross surplus.....	4,515.49	1,197.88	431.70	2,837.76
Gross loss.....				
Depreciation.....	2,009.00	457.00	420.00	627.00
Net surplus.....	2,506.49	740.88	11.70	2,210.76
Net loss.....				



## “ C ”—Continued

## Hydro Municipalities for Year Ended December 31, 1924

Thamesford P.V.	Thamesville 785	Thedford 506	Thorndale P.V.	Thorold 5,033	Tilbury 1,981	Tillsonburg 3,086
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,474.07	3,314.33	2,184.91	1,239.34	15,833.36	4,705.82	9,705.98
1,175.72	2,179.65	1,408.02	737.35	5,702.15	3,960.70	7,375.54
4,069.90	2,582.60	781.12	1,319.48	3,512.53	10,367.07	13,519.41
				3,535.58	425.40	
510.00	770.00	1,300.00	448.00	3,191.00	1,028.85	3,265.62
						62.71
1.00						1,021.36
7,230.69	8,846.58	5,674.05	3,744.17	31,774.62	20,487.84	34,950.62
4,550.34	4,058.17	2,954.67	2,622.82	15,013.91	10,701.26	16,706.67
				3,593.90		1,353.26
99.48	255.09	222.54	221.41	2,511.91	37.28	763.44
						281.21
						137.91
46.31	48.88	53.18	82.57	676.89	30.82	500.53
						24.35
						838.64
260.80	527.42	211.06	154.47	2,204.37	1,819.32	2,934.02
				306.00		418.77
78.14	52.37	727.96	173.75	29.31	346.69	174.51
268.23	370.17	503.98	149.20	402.10	399.84	1,005.33
5,303.30	5,312.10	4,673.39	3,404.22	24,738.39	13,335.21	25,138.64
1,927.39	3,534.48	1,000.66	339.95	7,036.23	7,152.63	9,811.98
296.00	416.00	230.00	150.00	2,035.00	539.00	2,030.00
1,631.39	3,118.48	770.66	189.95	5,001.23	6,613.63	7,781.98

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

**NIAGARA  
SYSTEM—Continued**

Municipality.....	Toronto	Toronto Township	Trafalgar Township	Vaughan Township
Population,.....	529,210			
<b>EARNINGS</b>				
	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,113,870.87	38,350.74	7,855.14	2,058.79
Commercial light.....	1,896,832.09		1,000.49	545.06
Commercial power.....	2,430,998.68	7,644.31	1,399.10	4,211.09
Municipal power.....	817,152.27			
Street lighting.....	447,069.08	2,815.00		238.00
Rural service.....				1,726.89
Miscellaneous.....	97,927.08		357.63	
Total earnings.....	7,803,850.07	48,810.05	10,612.36	8,779.83
<b>EXPENSES</b>				
Power purchased.....	3,508,543.14	16,377.86	3,323.00	2,675.52
Substation operation.....	205,288.48			
Substation maintenance.....	151,893.88			
Distribution system, operation and maintenance.....	229,700.17	4,717.60	1,108.82	202.14
Line transformer maintenance.....	53,531.21			
Meter maintenance.....	64,913.92			
Consumers' premises expenses.....	219,736.17			
Street lighting, operation and main- tenance.....	105,426.12	57.94		40.77
Promotion of business.....	160,825.16			
Billing and collecting.....	282,381.39			
General office, salaries and expenses.	401,385.61	4,036.94	1,587.69	251.71
Undistributed expenses.....	280,127.75	346.00		
Interest.....	1,027,967.24	4,286.42	1,782.42	2,178.44
Sinking fund and principal payments on debentures.....	626,899.59	2,566.43		282.31
Total expenses.....	7,318,619.83	32,389.19	7,801.93	5,630.89
Gross surplus.....	485,230.24	16,420.86	2,810.43	3,148.94
Gross loss.....				
Depreciation.....	430,991.12	4,033.00	624.00	902.00
Net surplus.....	54,239.12	12,387.86	2,186.43	2,246.94
Net loss.....				

## " C "—Continued

## Hydro Municipalities for Year Ended December 31, 1924

Walkerville	Wallaceburg	Wardsville	Waterdown	Waterford	Waterloo	Watford
7,469	4,530	195	811	1,065	6,096	1,059
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
64,338.96	12,262.84	887.66	2,927.21	3,871.88	28,786.94	4,158.80
22,903.80	6,178.47	447.16	722.74	1,011.78	11,647.41	2,960.33
114,908.43	44,381.35		1,437.47	4,455.51	41,420.25	2,103.19
	1,043.92				4,027.98	
7,533.38	2,872.92	620.00	940.00	1,213.40	6,894.27	1,102.50
			8,507.58	174.06		
14,565.25	425.11			155.81	1,078.28	
224,249.82	67,164.61	1,954.82	14,535.00	10,882.44	93,855.13	10,324.82
136,913.86	37,778.70	843.99	6,243.77	6,271.29	54,149.99	5,190.01
7,277.22					2,641.09	
386.05	243.77				100.90	
3,030.78	2,487.85	30.23	966.00	549.85	2,509.25	868.43
2,317.74	254.03				52.09	
2,770.76	189.72				404.51	
4,206.66	760.93	25.37	150.98	109.74	1,062.84	133.95
					345.71	
10,582.17	5,428.43	184.33	875.41	730.75	1,851.55	
7,439.55	1,217.56				5,377.73	683.09
10,613.00	2,402.81	344.60	1,037.76		273.39	
					5,036.70	230.95
9,462.56	1,008.53	244.36	517.63		3,156.86	440.14
195,000.35	51,772.33	1,672.88	9,791.55	7,661.63	76,962.61	7,546.57
29,249.47	15,392.28	281.94	3,743.45	3,220.81	16,892.52	2,778.25
8,357.00	2,122.00	132.00	1,063.00	477.00	5,550.00	444.00
20,892.47	13,270.28	149.94	3,680.45	2,743.81	11,342.52	2,334.25



## STATEMENT

## Detailed Operating Reports of Electrical Departments of

**NIAGARA  
SYSTEM—Continued**

Municipality .....	Welland	Wellesley P.V.	West Lorne	Weston
Population.....	8,636		812	3,569
<b>EARNINGS</b>				
	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	28,780.82	1,445.36	1,903.28	19,971.05
Commercial light.....	8,282.89	836.40	1,636.27	3,566.53
Commercial power.....	47,940.35	4,867.43	7,900.64	38,057.47
Municipal power.....				2,295.15
Street lighting.....	7,490.97	885.00	1,034.50	8,820.15
Rural service.....				
Miscellaneous.....	10,294.19		50.90	258.17
Total earnings.....	102,789.22	8,034.19	12,525.59	72,968.52
<b>EXPENSES</b>				
Power purchased.....	54,589.68	5,691.34	9,844.83	50,083.42
Substation operation.....	2,498.65			
Substation maintenance.....	44.82			
Distribution system, operation and maintenance.....	4,037.66	40.72	223.82	3,983.12
Line transformer maintenance.....	166.54			15.00
Meter maintenance.....	468.94			25.58
Consumers' premises expenses.....				
Street lighting, operation and main- tenance.....	530.64	53.20	268.02	518.20
Promotion of business.....	229.14			
Billing and collecting.....	2,947.55			
General office, salaries and expenses.....	6,099.31	441.99	883.95	2,787.20
Undistributed expenses.....	2,174.41			251.48
Interest.....	16,961.98	323.91		2,261.39
Sinking fund and principal payments on debentures.....	5,191.39	306.56	152.14	1,202.41
Total expenses.....	95,940.71	6,857.72	11,372.76	61,127.80
Gross surplus.....	6,848.51	1,176.47	1,152.83	11,840.72
Gross loss.....				
Depreciation.....	7,194.00	268.00	334.00	3,400.00
Net surplus.....		908.47	818.83	8,440.72
Net loss.....	345.49			

## " C "—Continued

## Hydro Municipalities for Year Ended December 31, 1924

*Wheatley 647	Windsor 42,122	Woodbridge 675	Woodstock 10,196	Wyoming 503	Zurich P.V.	NIAGARA SYSTEM SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,085.13	323,851.35	2,127.17	47,519.61	1,656.80	1,470.91	5,134,998.67
2,078.71	141,192.25	897.02	22,608.94	1,084.82	1,034.53	3,059,476.85
691.12	180,122.27	4,456.96	39,794.13	362.50	2,295.35	5,164,333.82
.....	109,119.25	219.58	2,788.22	.....	.....	1,231,066.55
1,225.00	55,909.51	876.00	6,812.67	1,000.00	735.00	1,095,170.43
.....	11,692.46	119.72	.....	.....	.....	70,125.29
.....	5,994.64	.....	884.48	.....	.....	209,575.19
6,079.96	827,881.73	8,696.45	120,408.05	4,104.12	5,535.79	15,964,746.80
2,747.92	450,981.59	5,182.56	78,986.59	2,314.29	4,187.81	8,194,169.10
.....	33,892.09	.....	2,734.26	.....	.....	370,181.44
.....	10,835.69	.....	277.74	.....	.....	187,155.38
28.79	22,921.10	407.28	4,883.46	131.61	88.52	525,358.68
.....	3,177.18	.....	245.81	.....	.....	77,625.47
.....	2,777.02	.....	545.12	.....	.....	118,675.37
.....	8,979.02	.....	.....	.....	.....	236,172.81
7.80	16,752.98	179.55	1,493.01	102.13	81.65	212,516.80
.....	2,270.25	.....	.....	.....	.....	190,469.48
.....	22,672.76	.....	3,473.18	.....	.....	437,788.79
323.88	20,856.32	509.81	4,210.74	288.11	386.86	769,823.41
.....	22,293.72	.....	2,400.40	.....	.....	446,654.12
583.79	56,936.04	124.08	3,459.36	457.83	17.33	1,590,469.41
372.83	36,650.58	180.11	2,178.59	442.08	107.79	1,007,374.95
4,065.01	711,996.34	6,583.39	104,888.26	3,736.05	4,869.96	14,364,435.21
2,014.95	115,885.39	2,113.06	15,519.79	368.07	665.83	1,600,311.59
.....	.....	.....	.....	.....	.....	.....
.....	29,016.00	454.00	7,422.00	259.00	219.00	825,845.55
2,014.95	86,869.39	1,659.06	8,097.79	109.07	446.83	774,466.04
.....	.....	.....	.....	.....	.....	.....

\* Nine months' operation only.

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY  
SYSTEM

Municipality.....	Alliston	Arthur	Barrie	Beaverton	Beeton
Population.....	1,283	1,062	7,075	975	578
<b>EARNINGS</b>					
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	5,971.13	3,794.69	27,148.99	4,100.58	2,259.49
Commercial light.....	3,178.55	2,885.23	12,034.21	2,044.32	1,739.97
Commercial power.....	1,501.42	4,486.73	11,498.49	4,274.73	3,650.34
Municipal power.....	634.65		1,241.72		
Street lighting.....	2,040.00	1,899.38	4,088.00	1,169.28	1,192.00
Rural service.....			52.67	2,494.52	
Miscellaneous.....			3,335.24	112.76	2.36
Total earnings.....	13,325.75	13,066.03	59,399.32	14,196.19	8,844.16
<b>EXPENSES</b>					
Power purchased.....	7,366.58	9,011.68	35,558.96	5,302.08	6,960.24
Substation operation.....			55.65		
Substation maintenance.....					
Distribution system, operation and maintenance.....	914.09	261.09	2,407.03	1,077.79	42.99
Line transformer maintenance.....			27.00		
Meter maintenance.....			223.13		
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	186.32	117.59	1,598.09	2.84	88.84
Promotion of business.....					
Billing and collecting.....					
General office, salaries and expenses.....	792.01	478.56	3,735.91	369.09	444.15
Undistributed expenses.....			1,037.24		
Interest.....	2,323.61	1,722.08	1,211.53	762.07	826.84
Sinking fund and principal payments on debentures.....	799.61	381.10	1,823.91	345.17	288.15
Total expenses.....	12,382.22	11,972.10	47,678.45	7,859.04	8,651.21
Gross surplus.....	943.53	1,093.93	11,720.87	6,337.15	192.95
Gross loss.....					
Depreciation.....	888.00	647.00	4,063.18	531.00	395.00
Net surplus.....	55.53	446.93	7,657.69	5,806.15	
Net loss.....					202.05





## STATEMENT

## Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY  
SYSTEM—Continued

Municipality.....	Creemore	Dundalk	Durham	Elmvale P.V.	Elmwood P.V.
Population.....	630	727	1,640		
<b>EARNINGS</b>					
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	1,561.35	1,785.30	4,082.53	1,408.71	643.64
Commercial light.....	1,121.28	1,620.46	2,988.53	1,104.07	495.40
Commercial power.....	1,730.54	2,986.40	11,507.62	4,149.08	1,382.42
Municipal power.....					
Street lighting.....	569.20	740.00	1,584.00	684.00	414.00
Rural service.....					
Miscellaneous.....	269.57	168.05			
Total earnings.....	5,251.94	7,300.21	20,162.68	7,345.86	2,935.46
<b>EXPENSES</b>					
Power purchased.....	3,712.44	3,559.17	11,302.21	5,704.02	2,044.37
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	85.61	197.79	261.66	556.69	31.29
Line transformer maintenance.....					
Meter maintenance.....					
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	21.92	73.28	66.91	55.45	2.00
Promotion of business.....					
Billing and collecting.....					
General office, salaries and expenses.	324.70	382.36	1,498.19	350.11	139.20
Undistributed expenses.....					
Interest.....	268.17	198.30	930.60	65.47	376.17
Sinking fund and principal payments on debentures.....	298.52	220.05	1,432.57	180.20	252.20
Total expenses.....	4,711.36	4,630.95	15,492.14	6,911.94	2,845.23
Gross surplus.....	540.58	2,669.26	4,670.54	433.92	90.23
Gross loss.....					
Depreciation.....	276.00	291.00	729.00	399.00	167.00
Net surplus.....	264.58	2,378.26	3,941.54	34.92	
Net loss.....					76.77

## “ C ”—Continued

## Hydro Municipalities for Year Ended December 31, 1924

Flesherton 420	Grand Valley 616	Hanover 2,714	Holstein P.V.	Kincardine 2,113	Kirkfield P.V.	Lucknow 917	Markdale 865
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,476.36	2,385.65	10,527.70	687.38	9,470.40	451.45	3,539.73	2,584.59
1,195.51	1,998.82	4,960.87	590.92	4,988.33	920.92	2,831.76	1,591.52
233.46	2,316.55	35,493.73	208.57	5,446.01	439.81	2,193.75	1,365.48
.....	.....	324.80	.....	1,465.52	.....	.....	.....
552.00	832.00	3,010.44	490.00	3,888.00	460.00	1,400.00	650.04
326.21	.....	.....	.....	.....	.....	.....	.....
.....	59.33	.....	13.99	274.50	.....	.....	.....
3,783.54	7,592.35	54,317.54	1,990.86	25,532.76	2,272.18	9,965.24	6,191.63
2,472.58	4,914.80	35,675.23	1,429.05	13,157.95	1,217.50	6,251.60	3,422.02
.....	.....	.....	.....	.....	.....	.....	.....
31.53	79.30	3,301.90	32.53	1,161.16	220.87	49.60	284.93
.....	.....	.....	.....	.....	.....	.....	.....
61.15	87.20	369.76	16.24	252.59	10.61	56.93	12.99
.....	.....	.....	.....	.....	.....	.....	.....
257.64	359.62	1,980.15	190.73	2,862.80	7.97	447.80	589.53
.....	.....	334.29	.....	.....	.....	.....	.....
450.44	265.94	3,016.46	302.71	3,606.35	377.30	1,080.55	493.17
.....	.....	.....	.....	.....	.....	.....	.....
161.16	449.63	3,065.96	132.04	2,040.21	194.25	582.75	181.42
3,434.50	6,156.49	47,743.75	2,103.30	23,081.06	2,028.50	8,469.23	4,984.06
349.04	1,435.86	6,573.79	.....	2,451.70	243.68	1,496.01	1,207.57
.....	.....	.....	112.44	.....	.....	.....	.....
239.00	352.00	2,186.00	81.00	1,230.00	147.00	429.00	370.00
110.04	1,083.86	4,387.79	.....	1,221.70	96.68	1,067.01	837.57
.....	.....	.....	193.44	.....	.....	.....	.....



## STATEMENT

## Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY  
SYSTEM—Continued

Municipality.....	*Meaford	Midland	Mount Forest	Neustadt	Orangeville
Population.....	2,653	7,157	1,734	452	2,611
EARNINGS					
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	13,042.58	21,188.50	4,418.91	1,542.94	5,462.28
Commercial light.....	9,229.46	8,687.61	4,680.69	1,040.23	4,456.08
Commercial power.....	3,105.17	65,606.78	3,468.18	5,667.84	6,100.37
Municipal power.....	645.24	2,616.14	1,451.65		342.00
Street lighting.....	3,698.91	4,061.65	2,582.66	975.00	3,858.05
Rural service.....					
Miscellaneous.....	35.14		293.44		95.95
Total earnings.....	29,756.50	102,160.68	16,895.53	9,226.01	20,314.73
EXPENSES					
Power purchased.....	13,330.64	69,632.20	9,202.86	7,104.98	12,498.86
Substation operation.....		1,947.11			
Substation maintenance.....		80.87			
Distribution system, operation and maintenance.....	706.32	1,806.51	702.32	58.54	1,476.11
Line transformer maintenance.....		50.03			
Meter maintenance.....	9.00	589.23			
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	220.28	553.62	400.07	41.03	222.37
Promotion of business.....		1,198.16			
Billing and collecting.....		1,488.14			
General office, salaries and expenses.....	3,357.48	3,866.56	873.38	395.12	838.40
Undistributed expenses.....		1,166.83			
Interest.....	1,523.37	1,910.42	1,293.21	957.32	1,476.66
Sinking fund and principal payments on debentures.....		3,879.42	900.85	618.85	1,625.21
Total expenses.....	19,147.09	88,169.10	13,372.69	9,175.84	18,137.61
Gross surplus.....	10,609.41	13,991.58	3,522.84	50.17	2,177.12
Gross loss.....					
Depreciation.....	811.00	4,275.00	844.00	411.00	1,001.00
Net surplus.....	9,798.41	9,716.58	2,678.84		1,176.12
Net loss.....				360.83	

\*Sixteen months' operation.

## "C"—Continued

## Hydro Municipalities for Year Ended December 31, 1924

Owen Sound 12,218	Paisley 735	Penetan- guishene 3,945	Port McNicoll 650	Port Perry 1,115	Priceville P.V.	Ripley P.V.	Shelburne 1,093
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
33,965.82	3,170.43	6,457.69	1,989.67	5,149.08	492.97	1,887.76	4,331.44
20,304.15	2,223.77	2,997.54	744.38	2,584.67	234.55	2,102.78	3,398.49
29,663.77	740.64	9,598.93	.....	1,451.55	.....	.....	3,737.20
.....	.....	1,621.51	71.55	589.38	.....	.....	500.68
10,614.00	1,892.00	1,810.00	546.00	2,014.69	469.50	1,323.00	1,092.00
.....	.....	.....	.....	.....	.....	106.28	.....
369.07	.....	84.67	.....	.....	.....	.....	.....
94,916.81	8,026.84	22,570.34	3,351.60	11,789.37	1,197.02	5,419.82	13,059.81
43,984.14	3,688.87	11,377.57	1,584.93	4,950.92	829.86	3,624.64	7,221.84
5,412.07	.....	1,930.76	.....	.....	.....	.....	.....
.....	.....	124.60	.....	.....	.....	.....	.....
2,877.49	85.26	566.33	318.80	623.42	43.68	26.68	39.97
.....	.....	11.71	.....	.....	.....	.....	.....
508.66	.....	20.80	.....	.....	.....	.....	.....
1,401.09	49.47	244.51	.....	51.00	6.75	60.73	125.62
2,357.76	.....	112.98	.....	.....	.....	.....	.....
6,560.81	267.02	2,573.97	69.46	428.60	35.02	279.62	829.96
1,650.68	.....	.....	.....	.....	.....	.....	.....
4,726.62	871.71	841.77	354.04	1,004.57	388.33	839.52	761.31
1,679.20	458.87	1,293.79	283.83	.....	303.51	225.98	844.31
71,158.52	5,421.20	19,098.79	2,611.06	7,058.51	1,607.15	5,057.17	9,823.01
23,758.29	2,605.64	3,471.55	740.54	4,730.86	.....	362.65	3,236.80
.....	.....	.....	.....	.....	410.13	.....	.....
4,988.17	273.00	951.00	234.00	413.00	121.00	275.00	609.00
18,770.12	2,332.64	2,520.55	506.54	4,317.86	.....	87.65	2,627.80
.....	.....	.....	.....	.....	531.13	.....	.....

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY  
SYSTEM—Continued

Municipality.....	Stayner	Sunderland P.V.	Tara	Teeswater	Thornton P.V.
Population.....	1,030		502	813	
<b>EARNINGS</b>					
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,859.76	1,965.84	2,315.21	3,207.62	808.49
Commercial light.....	1,381.79	1,405.48	1,805.31	2,311.03	296.01
Commercial power.....	2,882.89	1,039.56	788.84	3,044.29	
Municipal power.....					
Street lighting.....	915.00	540.00	1,700.00	1,656.00	840.00
Rural service.....		1,043.26			
Miscellaneous.....	6.77				
Total earnings.....	8,046.21	5,994.14	6,609.36	10,218.94	1,944.50
<b>EXPENSES</b>					
Power purchased.....	4,367.91	2,783.58	4,648.01	6,361.20	1,438.72
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	611.09	363.83	206.65	193.68	10.20
Line transformer maintenance.....					
Meter maintenance.....					
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	22.85	73.51	112.16	33.60	
Promotion of business.....					
Billing and collecting.....					
General office, salaries and expenses.	398.02	169.18	309.87	399.59	77.68
Undistributed expenses.....					
Interest.....	231.65	668.18	1,273.98	1,714.97	491.36
Sinking fund and principal payments on debentures.....	642.54	194.32	215.10	642.70	251.58
Total expenses.....	6,274.06	4,252.60	6,765.77	9,345.74	2,269.54
Gross surplus.....	1,772.15	1,741.54		873.20	
Gross loss.....			156.41		325.04
Depreciation.....	504.00	191.00	370.00	427.00	201.00
Net surplus.....	1,268.15	1,550.54		446.20	
Net loss.....			526.41		526.04



## " C "—Continued

## Hydro Municipalities for Year Ended December 31, 1924

Tottenham 519	Uxbridge 1,453	Victoria Harbour 1,453	Waubauskene P.V.	Wingham 2,440	Woodville 458	GEORGIAN BAY SYSTEM SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,525.46	4,856.83	2,025.54	1,291.80	8,423.91	2,069.02	258,336.02
1,465.00	3,641.10	1,047.42	443.40	7,501.40	1,326.80	154,537.29
787.62	1,720.73		363.63	12,262.45	1,566.83	288,800.20
				285.51		14,808.16
1,225.00	2,268.00	753.50	310.00	4,345.01	540.00	85,208.74
	71.66				490.13	4,724.70
				1,168.16		8,583.53
6,003.08	12,558.32	3,826.46	2,408.83	33,986.44	5,992.78	814,998.64
3,942.05	5,135.84	2,136.88	1,395.79	16,346.18	2,356.15	473,715.68
				1,569.52		5,552.34
						5,617.54
113.10	522.69	93.05	6.16	2,315.98	346.61	28,739.03
						88.74
						1,385.26
51.95	63.58	47.38	31.83	215.09	33.80	7,821.78
						1,198.16
						5,842.27
382.24	711.05	392.73	349.27	1,619.01	143.16	46,679.26
				33.57		4,710.30
673.63	800.91	251.13	151.05	3,557.05	397.67	51,596.24
181.53		286.09	151.65	2,960.13	143.98	35,267.13
5,344.50	7,234.07	3,207.26	2,085.75	28,616.53	3,421.37	668,213.73
658.58	5,324.25	619.20	323.08	5,369.91	2,571.41	146,784.91
281.00	336.00	266.00	148.00	1,908.00	130.00	37,342.35
377.58	4,988.25	353.20	175.08	3,461.91	2,441.41	109,442.56

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

MUSKOKA  
SYSTEM

Municipality.....	Gravenhurst	Huntsville	MUSKOKA SYSTEM SUMMARY
Population.....	1,609	2,286	
<b>EARNINGS</b>			
	\$ c.	\$ c.	\$ c.
Domestic service.....	5,344.18	8,783.84	14,128.02
Commercial light.....	4,355.42	4,903.33	9,258.75
Commercial power.....	8,777.94	13,692.01	22,469.95
Municipal power.....	1,421.42	1,170.00	2,591.42
Street lighting.....	2,168.25	2,200.00	4,368.25
Rural service.....			
Miscellaneous.....	623.25	405.68	1,028.93
Total earnings.....	22,690.46	31,154.86	53,845.32
<b>EXPENSES</b>			
Power purchased.....	8,085.86	24,609.46	32,695.32
Substation operation.....			
Substation maintenance.....			
Distribution system, operation and maintenance.....	2,515.89	2,503.00	5,018.89
Line transformer maintenance.....			
Meter maintenance.....			
Consumers' premises expenses.....			
Street lighting, operation and main- tenance.....	94.90	186.97	281.87
Promotion of business.....			
Billing and collecting.....			
General office, salaries and expenses.....	1,657.02	1,281.16	2,938.18
Undistributed expenses.....			
Interest.....	1,616.11	641.87	2,257.98
Sinking fund and principal payments on debentures.....	2,249.40	1,132.74	3,382.14
Total expenses.....	16,219.18	30,355.20	46,574.38
Gross surplus.....	6,471.28	799.66	7,270.94
Gross loss.....			
Depreciation.....	1,493.00	661.00	2,154.00
Net surplus.....	4,978.28	138.66	5,116.94
Net loss.....			

## " C "—Continued

## Hydro Municipalities for Year Ended December 31, 1924

ST. LAWRENCE  
SYSTEM

Alexandria 2,255	Apple Hill P.V.	Brockville 9,384	Chesterville 865	Lancaster 601	Martintown P.V.	Maxville 763
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,464.25	760.72	29,374.80	4,012.00	1,721.60	568.49	2,480.65
4,826.62	654.47	21,015.37	2,743.04	1,201.36	538.33	2,115.84
9,760.48	507.17	42,903.36	8,582.79	71.20	.....	1,278.82
1,552.05	.....	12,502.00	.....	.....	.....	.....
2,819.66	575.00	9,188.50	1,105.00	1,400.00	375.00	1,855.08
.....	.....	.....	.....	.....	118.86	.....
.....	.....	120.00	242.43	.....	.....	.....
24,423.06	2,497.36	115,104.03	16,685.26	4,394.16	1,600.68	7,730.39
14,118.64	1,583.21	47,703.21	10,435.33	4,137.90	1,045.52	4,417.34
.....	.....	5,339.90	.....	.....	.....	.....
.....	.....	939.49	.....	.....	.....	.....
1,184.40	11.35	2,080.60	1,028.43	54.86	5.00	463.45
.....	.....	15.96	.....	.....	.....	.....
.....	.....	1,960.99	.....	.....	.....	.....
185.43	1.50	2,267.71	151.27	52.79	30.70	223.82
.....	.....	170.10	.....	.....	.....	.....
.....	.....	1,641.86	.....	.....	.....	.....
1,270.19	263.04	4,059.68	283.45	249.84	65.14	189.06
173.89	.....	1,273.39	.....	.....	.....	.....
2,721.83	375.51	6,314.90	236.58	749.31	273.13	996.15
2,073.30	181.53	5,785.40	279.50	420.92	194.26	538.82
21,727.68	2,416.14	79,553.19	12,414.56	5,665.62	1,613.75	6,828.64
2,695.38	81.22	35,550.84	4,270.70	.....	.....	901.75
.....	.....	.....	.....	1,271.46	13.07	.....
806.00	107.00	3,341.00	385.75	190.00	87.00	356.00
1,889.38	.....	32,209.84	3,884.95	.....	.....	545.75
.....	25.78	.....	.....	1,461.46	100.07	.....



## STATEMENT

## Detailed Operating Reports of Electrical Departments of

ST. LAWRENCE  
SYSTEM—Continued

Municipality.....	Prescott	Williamsburg P.V.	Winchester	ST. LAWRENCE SYSTEM SUMMARY
Population.....	2,597		1,090	
EARNINGS				
	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	6,819.17	899.53	4,703.97	56,805.18
Commercial light.....	4,048.82	663.81	2,078.22	39,885.88
Commercial power.....	4,507.92	222.46	1,153.72	68,987.92
Municipal power.....	1,731.11			15,785.16
Street lighting.....	3,395.00	270.00	1,170.00	22,153.24
Rural service.....				118.86
Miscellaneous.....	182.86		650.82	1,196.11
Total earnings.....	20,684.88	2,055.80	9,756.73	204,932.35
EXPENSES				
Power purchased.....	9,879.91	1,376.11	5,464.75	100,161.92
Substation operation.....	1,918.58			7,258.48
Substation maintenance.....	139.07			1,078.56
Distribution system, operation and maintenance.....	1,294.90	143.33	1,035.82	7,302.14
Line transformer maintenance.....				15.96
Meter maintenance.....	27.25			1,988.24
Consumers' premises expenses.....				
Street lighting, operation and main- tenance.....	182.30	25.80	126.88	3,248.20
Promotion of business.....				170.10
Billing and collecting.....	6.56			1,648.42
General office, salaries and expenses.	2,802.63	19.78	671.43	9,874.24
Undistributed expenses.....	221.50			1,668.78
Interest.....		85.13	388.93	12,141.47
Sinking fund and principal payments on debentures.....	1,248.06	129.03	227.57	11,078.39
Total expenses.....	17,720.76	1,779.18	7,915.38	157,634.90
Gross surplus.....	2,964.12	276.62	1,841.35	47,297.45
Gross loss.....				
Depreciation.....	710.00	87.00	402.00	6,471.75
Net surplus.....	2,254.12	189.62	1,439.35	40,825.70
Net loss.....				

## " C "—Continued

## Hydro Municipalities for Year Ended December 31, 1924

RIDEAU  
SYSTFM

Carleton Place 4,254	Kemptville 1,175	Lanark 591	Perth 3,710	Smiths Falls 6,592	RIDEAU SYSTFM SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
13,950.50	4,400.39	1,805.02	12,889.76	28,677.50	61,723.17
8,167.48	5,048.09	1,201.76	7,756.53	14,495.01	36,668.87
24,775.84	3,676.29	114.49	11,717.98	20,676.07	60,960.67
2,270.13			2,457.93	2,717.34	7,445.40
1,871.83	1,537.50	700.00	2,003.33	3,944.08	10,056.74
542.78	10.16		1,602.67	430.78	2,586.39
51,578.56	14,672.43	3,821.27	38,428.20	70,940.78	179,441.24
33,618.93	5,632.29	2,311.46	20,525.18	35,964.33	98,052.19
123.26			360.00	1,567.76	1,927.76
			1.50	28.25	153.01
2,838.40	1,698.46	20.20	874.18	2,965.68	8,396.92
156.11			87.80	124.64	368.55
396.89			49.80	151.56	598.25
431.85	95.99	18.15	137.87	277.45	961.31
1,141.30			1,516.47	871.66	3,529.43
1,468.95	1,011.50	219.55	2,581.71	2,539.06	7,820.77
660.93			161.31	1,114.39	1,936.63
3,596.93	1,179.73	353.50	4,446.05	9,115.51	18,691.72
1,426.20	376.62	274.90	1,723.40	7,293.42	11,094.54
45,859.75	9,994.59	3,197.76	32,465.27	62,013.71	153,531.08
5,718.81	4,677.84	623.51	5,962.93	8,927.07	25,910.16
1,480.00	517.00	146.00	1,948.00	4,118.00	8,209.00
4,238.81	4,160.84	477.51	4,014.93	4,809.07	17,701.16

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

THUNDER BAY SYSTEM		OTTAWA SYSTEM	TRENT SYSTEM
Municipality.....	Port Arthur	Ottawa	Bloomfield
Population.....	15,681	116,205	625
EARNINGS			
	\$ c.	\$ c.	\$ c.
Domestic service.....	65,709.88	201,346.25	2,100.70
Commercial light.....	42,658.99	97,707.78	1,013.72
Commercial power.....	420,440.79	44,961.29	2,097.90
Municipal power.....	35,313.63	32,831.47	
Street lighting.....	16,509.23	68,960.05	1,066.67
Rural service.....			131.39
Miscellaneous.....	3,563.14	298.08	
Total earnings.....	584,195.66	446,104.92	6,410.38
EXPENSES			
Power purchased.....	383,659.32	151,396.61	3,055.07
Substation operation.....	16,087.38	13,488.89	
Substation maintenance.....	3,719.51		
Distribution system, operation and maintenance.....	15,799.10	28,942.91	41.49
Line transformer maintenance.....	690.16	373.14	
Meter maintenance.....	2,813.09	6,879.52	
Consumers' premises expenses.....	5.89		
Street lighting, operation and main- tenance.....	3,859.27	25,554.02	53.57
Promotion of business.....	689.52	7,352.11	
Billing and collecting.....	3,814.33	28,887.62	
General office, salaries and expenses.	10,554.23	15,601.31	365.40
Undistributed expenses.....	7,451.47	13,017.74	
Interest.....	13,920.55	47,709.74	549.07
Sinking fund and principal payments on debentures.....	13,447.51	14,621.44	239.02
Total expenses.....	476,511.33	353,825.05	4,303.62
Gross surplus.....	107,684.33	92,279.87	2,106.76
Gross loss.....			
Depreciation.....	18,745.57	49,890.00	261.00
Net surplus.....	88,938.76	42,389.87	1,845.76
Net loss.....			



## “ C ”—Continued

## Hydro Municipalities for the Year Ended December 31, 1924

Havelock 1,255	Kingston 21,975	Lakefield 1,250	Marmora 794	Norwood 765
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,754.16	74,607.81	3,964.22	2,116.86	3,028.79
1,282.03	61,256.74	3,349.58	1,268.52	1,689.45
2,033.48	51,240.56	2,172.03	216.93	1,229.52
.....	6,622.29	.....	.....	.....
2,056.00	20,000.00	1,851.68	2,088.00	1,913.00
.....	.....	.....	.....	.....
9.01	1,610.11	.....	.....	.....
10,134.68	215,337.51	11,337.51	5,690.31	7,860.76
.....	.....	.....	.....	.....
4,125.96	75,518.62	4,709.30	1,803.54	2,539.35
.....	12,552.42	.....	.....	.....
.....	3,310.13	.....	.....	.....
819.39	12,305.76	1,160.93	83.27	683.24
.....	1,976.07	.....	.....	.....
.....	4,214.81	.....	.....	.....
.....	1,137.50	.....	.....	.....
15.98	8,420.92	37.18	62.16	65.02
.....	965.60	.....	.....	.....
.....	3,232.79	.....	.....	.....
320.70	9,592.34	272.59	440.12	225.08
53.00	12,006.21	.....	.....	53.00
1,742.10	12,786.61	1,785.43	863.08	2,018.50
1,050.96	9,586.45	468.50	683.90	607.42
8,128.09	167,606.23	8,433.93	3,936.07	6,191.61
.....	.....	.....	.....	.....
2,006.59	47,731.28	2,903.58	1,754.24	1,669.15
.....	.....	.....	.....	.....
573.00	9,560.00	604.00	363.00	693.00
1,433.59	38,171.28	2,299.58	1,391.24	976.15
.....	.....	.....	.....	.....

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

TRENT  
SYSTEM—Continued

Municipality.....	Omamee	Peterboro	Picton
Population.....	450	21,605	3,135
EARNINGS			
	\$ c.	\$ c.	\$ c.
Domestic service.....	1,773.36	80,417.54	11,285.18
Commercial light.....	836.43	41,591.42	5,667.16
Commercial power.....	3,680.41	67,445.87	6,469.33
Municipal power.....		1,823.67	2,679.87
Street lighting.....	868.00	16,369.98	3,531.30
Rural service.....			
Miscellaneous.....			3,204.15
Total earnings.....	7,158.20	207,648.48	32,836.99
EXPENSES			
Power purchased.....	5,722.46	104,407.46	14,540.07
Substation operation.....		3,007.38	
Substation maintenance.....		960.46	
Distribution system, operation and maintenance.....	422.62	10,433.82	1,045.14
Line transformer maintenance.....		1,610.04	
Meter maintenance.....		4,437.29	
Consumers' premises expenses.....			
Street lighting, operation and maintenance.....	88.45	4,827.30	1,060.28
Promotion of business.....		1,215.77	
Billing and collecting.....		4,810.11	
General office, salaries and expenses.....	264.86	9,252.38	4,883.79
Undistributed expenses.....		5,138.03	
Interest.....	596.24	18,420.84	
Sinking fund and principal payments on debentures.....	450.01	10,975.18	359.01
Total expenses.....	7,544.64	179,496.06	21,888.29
Gross surplus.....		28,152.42	10,948.70
Gross loss.....	386.44		
Depreciation.....	370.00	9,788.68	1,000.62
Net surplus.....		18,363.74	9,948.08
Net loss.....	756.44		

## “ C ”—Concluded

## Hydro Municipalities for Year Ended December 31, 1924

Warkworth P.V.	Wellington 812	Whitby 4,174	TRENT SYSTEM SUMMARY	ALL SYSTEMS SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,053.79	3,742.91	10,338.56	200,183.88	5,993,231.07
1,226.00	1,627.13	5,224.63	126,032.81	3,566,227.22
.....	2,422.66	12,902.55	151,911.24	6,222,865.88
.....	.....	1,998.85	13,124.68	1,352,966.47
955.00	910.00	2,632.66	54,242.29	1,356,668.97
.....	.....	.....	131.39	75,100.24
.....	.....	8.94	4,832.21	231,663.58
4,234.79	8,702.70	33,106.19	550,458.50	18,798,723.43
1,370.27	3,179.69	14,967.47	235,939.26	9,669,789.40
.....	.....	55.45	15,559.80	430,056.09
.....	.....	.....	4,326.04	202,050.04
10.55	432.81	1,703.93	29,142.95	648,700.62
.....	.....	188.37	3,774.48	82,936.50
.....	.....	239.40	8,891.50	141,231.23
.....	.....	.....	1,137.50	237,316.20
12.00	32.51	1,054.68	15,730.05	269,973.30
.....	.....	.....	2,181.37	202,060.74
.....	.....	719.54	8,762.44	490,273.30
225.46	367.63	1,417.41	27,627.76	890,919.16
.....	.....	377.72	17,627.96	493,067.00
820.20	1,002.35	2,619.73	43,204.15	1,779,991.26
139.14	363.11	1,610.07	26,532.77	1,122,798.87
2,577.62	5,378.10	24,953.77	440,438.03	16,661,163.71
1,657.17	3,324.60	8,152.42	110,020.47	2,137,559.72
.....	.....	.....	.....	.....
123.00	436.10	1,219.00	24,991.40	973,649.62
1,534.17	2,888.50	6,933.42	85,029.07	1,163,910.10
.....	.....	.....	.....	.....



## STATEMENT "D"

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Domestic service						Commercial light service						Power service						
	Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	Total number of consumers
Year	\$	kw-hrs.		kw-hr.	\$ c.	cts.	cts.	\$	kw-hrs.		kw-hr.	\$ c.	cts.	cts.	\$	c.	\$	c.	
<b>Acton—</b>							10												
1913	1,236.50	.....	82	12	1.07	7.1	10	1,567.48	.....	62	28	2.08	7.5	10	318.77	3	.....	.....	147
1914	1,463.72	21,192	146	13	98	6.5		1,496.18	19,878	58	53	36.2	5.9	7.5	836.13	5	.....	.....	209
1915	1,931.11	29,079	183	13	98	6.5		1,725.73	24,336	53	60	52.2	3.9	7.1	1,019.27	5	.....	.....	241
1916	1,942.11	29,685	185	13	88	6.8		1,592.62	35,227	60	60	52.2	3.5	4.5	1,565.53	7	.....	.....	252
1917	2,016.13	34,268	200	15	87	5.8		1,600.56	38,244	65	65	49.2	3.5	4.2	4,116.69	9	157	26.22	274
1918	2,154.00	41,593	219	16	85	5.2		1,360.35	32,897	61	61	43.1	3.8	4.1	5,166.36	9	170	30.39	289
1919	2,628.12	44,352	235	16	93	5.9		1,613.56	39,807	65	65	51.2	3.7	4.1	5,329.46	10	199	26.78	310
1920	3,115.26	76,922	260	25	1.00	4.0		1,672.82	40,272	71	47	1.96	4.4	4.2	5,230.46	10	200	26.15	341
1921	3,650.48	100,205	301	28	1.01	3.6		2,012.27	56,732	69	68	2.34	3.5	3.5	5,558.31	14	216	25.85	384
1922	4,374.68	131,954	351	31	1.03	3.3		2,364.01	70,027	64	91	3.08	3.4	3.4	6,901.68	16	267	25.85	431
1923	5,834.01	205,605	383	44	1.26	2.8		2,475.16	77,647	74	74	87.2	3.1	3.1	8,729.16	18	315	27.74	475
1924	6,488.68	249,527	399	53	1.38	2.6		2,649.50	70,872	69	69	82.2	3.6	3.5	10,472.34	18	339	30.90	486
<b>Agincourt—</b>							None												
1923	2,161.85	34,391	84	34	2.14	6.2	None	325.59	2,333	10	19	2.71	13.9	None	1,003.19	2	26	38.58	96
1924	2,329.95	50,686	101	46	2.10	4.6		394.30	5,478	11	43	3.13	7.3	7.3	926.19	2	27	34.30	114
<b>Ailsa Craig—</b>							None												
1916	579.57	6,270	51	10	95	9.5	None	213.46	1,910	11	11	.....	11.2	None	15.57	1	.....	.....	63
1917	776.93	7,584	55	12	1.22	10.2		255.84	932	19	19	.....	11.2		1,591.95	4	40	39.80	78
1918	820.95	9,176	58	13	1.22	8.9		299.58	3,432	24	24	13.1	19.8	11.2	4,003.23	3	87	46.01	85
1919	1,087.47	12,991	71	15	1.28	8.4		496.94	5,578	27	27	18.1	62.9	8.7	3,786.31	1	93	31.03	99
1920	1,292.33	14,654	78	16	1.38	8.8		630.19	6,627	30	30	18.1	75.9	9.5	5,400.16	3	141	38.30	111
1921	1,402.73	20,369	95	18	1.23	6.9		722.21	7,553	32	32	20.1	88.9	9.6	5,297.07	3	124	42.71	130
1922	1,557.35	25,145	99	21	1.31	6.2		729.78	8,509	32	32	22.1	90.8	8.6	5,532.03	3	128	43.22	134

1923	1,708.00	30,602	138	191.03	5.5	735.81	9,838	30	272.04	7.4	4,267.97	3	12434.41	170
1924	1,615.40	27,918	111	191.08	5.7	810.37	9,998	31	272.18	8.1	4,125.76	3	11336.51	145
<b>Alexandria—</b>														
1922	4,527.07	68,417	221	261.71	6.6	4,350.98	50,916	88	484.12	8.5	7,528.43	11	14352.64	320
1923	5,155.02	69,304	217	261.98	7.4	4,592.49	59,014	95	514.02	7.7	9,411.13	13	20845.24	325
1924	5,464.25	68,103	228	262.05	7.9	4,826.62	60,008	98	524.17	8.0	11,312.53	15	23947.33	341
<b>Alliston—</b>														
1918	1,160.23	.....	191	.....	.....	713.95	.....	81	.....	.....	437.43	4	.....	276
1919	3,084.19	48,870	213	191.21	6.3	1,897.62	38,340	88	361.80	4.9	2,049.08	8	7228.46	309
1920	4,255.43	62,464	243	211.46	6.8	3,055.99	51,527	88	492.89	6.0	4,924.33	14	16629.66	345
1921	5,253.63	75,424	262	241.67	7.0	3,375.50	45,691	88	433.20	7.4	3,567.19	15	14923.94	365
1922	5,554.85	82,484	275	251.68	6.7	3,239.50	43,288	84	433.21	7.4	1,796.19	11	9119.74	370
1923	5,951.34	92,844	279	271.77	6.4	3,295.53	43,569	83	443.31	7.5	1,916.28	11	9420.38	373
1924	5,971.13	106,834	301	311.72	5.5	3,178.55	44,532	86	443.32	7.1	2,136.07	10	9821.73	397
<b>Alvinston—</b>														
1922	1,586.27	.....	128	.....	.....	1,124.49	.....	50	.....	.....	826.70	5	.....	183
1923	2,693.28	26,474	140	151.60	10.1	1,901.92	16,637	52	263.04	11.4	3,833.45	6	10337.21	198
1924	2,937.84	35,595	140	211.75	8.3	2,136.23	21,507	53	343.36	9.9	4,031.25	7	9343.34	200
<b>Ancaster Township—</b>														
1920	6,201.70	116,305	363	271.42	5.3	646.09	12,257	34	301.58	5.3	144.17	3	1212.00	400
1921	7,406.62	153,519	422	301.38	4.7	891.37	18,556	34	452.19	4.8	130.13	3	158.67	459
1922	8,598.01	177,507	467	311.53	4.9	993.66	24,542	39	522.12	4.0	293.44	4	407.34	546
1923	10,377.24	239,348	486	411.77	4.3	1,292.61	27,852	47	492.29	4.6	402.28	4	4010.05	537
1924	12,764.29	257,348	514	432.12	4.9	1,340.19	29,812	41	562.54	4.5	541.13	4	4013.53	559
<b>Apple Hill—</b>														
1922	522.93	.....	26	.....	.....	527.94	.....	19	.....	.....	595.57	1	.....	46
1923	688.47	.....	28	.....	.....	609.54	.....	19	.....	.....	659.30	1	.....	48
1924	760.72	10,854	31	302.11	7.0	654.47	5,891	18	273.03	11.2	507.17	1	1337.76	50
<b>Arthur—</b>														
1917	854.24	9,307	60	131.19	9.1	922.38	9,585	51	171.51	9.6	177.21	2	20.....	113
1918	1,065.52	12,457	69	151.05	8.5	940.54	9,855	58	141.35	9.5	3,285.56	4	8041.06	131
1919	1,393.50	16,840	84	171.38	8.3	1,499.36	16,210	64	211.95	9.2	5,103.85	6	13039.25	154
1920	1,949.56	23,412	95	201.81	8.3	1,898.65	19,967	62	252.38	9.5	4,948.55	6	12639.27	163
1921	2,368.81	25,582	101	211.95	9.2	1,699.10	21,203	71	253.17	12.7	5,013.98	5	12241.10	177
1922	2,811.99	30,930	120	211.95	9.3	2,911.14	22,540	70	273.44	12.7	4,325.59	5	10043.26	195
1923	3,104.17	33,500	140	191.84	9.2	3,044.35	23,730	76	263.33	12.7	3,990.58	4	8944.83	220
1924	3,794.69	51,915	144	302.23	7.4	2,885.23	26,940	71	303.25	10.8	4,486.73	4	9149.30	219

## STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service							Commercial light service							Power service				
		Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	Total number of consumers
Aylmer—	1918	2,569.66		392				10 + 10	1,986.69		112				10 + 10	799.21	5			509
	1919	5,391.99	84,789	347	201.30	6.4			4,886.86	77,168	118	55.3.38	6.3			3,318.98	5	104.31.91		470
	1920	6,553.82	90,129	379	201.44	7.3			5,831.46	77,650	109	59.4.46	7.5			3,192.47	7	146.21.86		495
	1921	7,358.00	96,078	416	191.47	7.6			6,238.14	78,003	108	61.4.81	8.0			3,834.16	10	171.22.42		534
	1922	7,339.17	94,804	465	171.32	7.7			6,422.18	83,601	118	59.4.53	7.7			3,083.25	9	175.21.05		592
	1923	8,741.34	182,132	480	311.51	4.7			5,923.53	128,583	123	87.4.01	4.6			3,336.85	10	200.16.68		613
	1924	7,505.68	222,871	499	381.28	3.4			4,420.06	147,039	122	100.3.02	3.0			3,379.52	10	193.17.51		631
Ayr—	1915	892.63	16,031	79			5.5		773.08	9,477	35			8.1		348.78	1			115
	1916	1,084.46	12,314	83	131.12	8.8	12 + .5		804.00	12,960	48	26.1.61	6.2	12.5 +		393.39	2			133
	1917	1,124.21	14,228	92	141.08	7.9	25		857.27	12,441	48	23.1.50	6.9	25		996.44	2	32.30.20		142
	1918	1,178.84	14,666	94	131.05	8.0			806.01	10,134	49	17.1.37	7.9			1,033.02	2	41.25.19		145
	1919	1,461.64	18,926	103	151.19	7.7			1,118.50	14,474	47	27.1.99	7.8			1,015.08	3	41.24.76		153
	1920	1,762.84	21,747	105	171.40	8.1			1,421.75	18,329	43	35.2.75	7.8			2,251.84	6	70.32.17		154
	1921	1,862.55	27,255	115	201.35	6.8			1,319.32	15,200	42	30.2.62	8.7			2,546.21	5	86.29.60		162
	1922	2,075.16	33,177	129	211.34	6.4			1,281.59	18,594	47	33.2.27	6.9			2,217.52	4	78.28.43		180
	1923	2,300.13	46,228	143	261.34	4.9			1,288.55	24,866	47	44.2.30	5.1			2,592.40	3	71.37.92		193
	1924	2,467.40	67,867	157	381.37	3.6			1,173.64	21,919	51	37.2.00	5.4			1,758.33	3	78.22.54		211
Baden—	1913	884.11		75				None	*		*				None	2,242.77	4			79
	1914	1,247.81	6,920	82	7	75.10.0			*	5,547	*	7	75.10.0			4,580.23	4			86
	1915	938.33	12,729	72	13	98.7.4			*		*	13	98.7.4			4,588.87	4			76
	1916	808.21	8,824	84	16	86.5.5			*	5,772	*	16	86.5.5			5,059.33	5			89



1917	842.09	10,066	58	12	98	8.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service						Commercial light service						Power service						
		Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	Total number of consumers
Beaverton—	1915	1,484.62	131	131	13	90	6.9	Flat	1,149.67	17,594	56	251.53	6.1	Flat	456.74	5	5	.....	.....	192
	1916	1,417.39	131	131	13	89	7.1	Flat	1,065.23	17,594	60	251.53	6.1	Flat	383.45	6	6	.....	.....	197
	1917	1,482.00	20,685	148	13	89	7.1	Flat	1,041.84	18,162	51	281.58	5.7	Flat	650.02	7	7	36	18.06	206
	1918	2,109.23	20,945	127	17	1.28	7.6	Flat	1,167.92	22,897	52	371.87	5.1	Flat	1,235.93	8	8	60	20.59	187
	1919	2,818.75	27,754	142	23	1.65	7.1	Flat	1,318.27	36,495	53	572.07	3.6	Flat	1,608.86	8	8	69	23.32	203
	1920	2,818.75	39,920	151	33	1.91	5.8	Flat	1,723.15	37,272	52	602.76	4.6	Flat	3,332.06	11	11	97	34.35	214
	1921	3,472.74	59,573	159	28	2.05	7.3	Flat	2,155.25	38,316	55	583.27	5.6	Flat	3,790.32	13	13	125	30.32	227
	1922	3,908.27	53,580	165	39	2.15	5.5	Flat	2,114.40	47,621	60	662.94	4.5	Flat	3,383.24	14	14	134	25.25	239
	1923	4,262.25	76,443	298	30	1.54	5.1	Flat	2,291.72	56,766	61	773.11	4.0	Flat	4,608.61	14	14	182	25.32	373
	1924	5,508.56	107,088	321	30	1.79	6.0	Flat	2,044.32	57,972	61	792.79	3.5	Flat	4,274.73	12	12	171	25.04	394
Beeton—	1918	268.41	62	62	13	1.14	8.9	11+15	144.29	7,926	18	262.46	9.4	11+15	905.60	2	2	86	38.80	82
	1919	904.40	10,114	66	13	1.41	9.8	11+15	738.36	7,926	25	262.46	9.4	11+15	3,336.77	1	1	86	38.80	92
	1920	1,284.55	13,050	76	14	1.41	9.8	11+15	906.28	10,137	28	302.70	8.9	11+15	3,740.12	2	2	86	43.49	106
	1921	1,753.33	18,121	79	19	1.85	9.7	11+15	1,242.18	13,595	30	383.45	9.1	11+15	4,507.27	2	2	93	48.47	111
	1922	2,107.96	22,921	89	21	1.97	9.4	11+15	1,408.90	15,718	29	454.05	9.0	11+15	3,802.85	3	3	90	42.25	121
	1923	2,369.07	28,389	93	35	2.12	8.3	11+15	1,445.83	18,471	32	483.76	7.8	11+15	3,037.04	3	3	84	36.15	128
	1924	2,259.49	36,445	100	31	1.94	6.3	11+15	1,739.97	20,135	30	544.84	8.9	11+15	3,650.34	4	4	103	35.30	134
	Belle River—	1923	3,134.84	52,864	97	45	2.69	5.9	11+15	926.81	7,879	19	344.06	11.9	11+15	523.08	2	2	17	30.76
1924		3,826.75	70,458	118	54	2.95	5.5	11+15	1,010.86	10,532	24	413.92	9.6	11+15	108.52	2	2	81	13.56	144

<b>Blenheim—</b>	1917	2,256.70	30,314	212	12	89	7.4	10	2,113.67	28,786	84	29	2.09	7.3	10	47.40	3	299
	1918	2,281.49	29,136	216	11	88	7.8		1,843.63	21,546	76	22	1.92	8.5		1,578.42	10	302
	1919	2,998.75	45,345	259	15	97	6.6		2,541.02	46,942	85	46	2.49	5.4		3,178.87	9	353
	1920	3,519.19	70,262	308	19	95	5.0		2,956.41	60,862	91	56	2.71	4.8		3,237.99	11	410
	1921	4,396.96	69,897	359	16	1.02	6.3		3,638.77	69,641	93	62	3.25	5.2		3,832.93	11	463
	1922	4,861.99	86,881	406	18	1.00	5.6		3,799.58	73,293	98	62	3.23	5.2		4,057.90	11	515
	1923	5,270.86	106,973	389	22	1.12	4.9		3,574.09	82,114	101	67	2.94	4.4		4,953.38	13	503
	1924	4,537.83	143,366	418	29	94	3.3		3,221.33	96,132	102	79	2.64	3.3		7,729.51	18	538
<b>Bloomfield—</b>	1920	1,184.19	12,063	76	13	1.30	9.8	None	607.68	6,283	15	35	3.38	9.7	None	1,000.32	4	95
	1921	1,481.86	16,381	78	17	1.58	9.1		665.41	6,114	16	32	3.48	10.9		635.83	3	97
	1922	1,585.28	18,410	88	17	1.50	8.8		736.46	7,390	19	32	3.23	10.0		789.12	4	111
	1923	1,696.39	22,052	89	20	1.48	7.6		845.06	7,859	17	36	3.91	10.9		2,010.49	6	112
	1924	2,231.09	25,530	126	20	1.73	8.7		1,013.72	9,609	19	44	4.69	10.7		2,097.90	6	151
<b>Blyth—(4 months)</b>	1924/	1,028.20	.....	95	.....	.....	.....		506.84	.....	34	.....	.....	.....		181.43	.....	129
<b>Bolton—</b>	1915	624.86	6,563	59	.....	.....	9.5	10+25	553.80	7,298	42	.....	.....	7.6		313.74	3	104
	1916	926.86	9,322	70	12	1.20	9.9		882.26	13,081	36	28	1.88	6.7		3,947.32	4	110
	1917	1,191.92	12,829	78	13	1.27	9.3		698.70	12,534	44	26	1.46	5.6		2,856.39	5	127
	1918	1,262.21	12,072	80	12	1.33	10.0		791.76	12,997	44	24	1.49	6.1		3,882.39	5	129
	1919	1,285.93	16,710	90	16	1.19	7.5		874.67	14,154	42	28	1.73	6.2		2,812.67	7	139
	1920	1,450.23	19,690	97	17	1.24	7.4		1,380.69	18,262	43	31	2.34	7.6		4,060.05	9	149
	1921	1,963.73	26,630	118	19	1.39	7.4		1,593.76	17,686	38	39	3.50	9.0		3,473.82	10	166
	1922	2,154.22	27,989	119	20	1.51	7.6		1,310.13	13,980	40	29	2.73	9.4		4,185.85	8	167
	1923	2,510.07	33,027	122	23	1.73	7.6		1,097.96	11,680	41	24	2.24	9.4		2,421.67	9	172
	1924	2,520.15	35,411	122	24	1.72	7.2		1,215.44	15,841	39	33	2.53	7.7		4,452.75	6	167
<b>Bothwell—</b>	1915	230.61	.....	68	.....	.....	.....	Flat	191.21	.....	32	.....	.....	.....		.....	.....	100
	1916	928.16	8,662	78	10	1.03	10.7		768.57	8,613	52	17	1.46	8.9	Flat	.....	.....	130
	1917	1,085.92	9,890	86	10	1.05	10.9		825.43	8,877	45	16	1.53	9.3		1,500.00	2	133
	1918	1,107.02	11,101	89	10	1.05	9.9		740.20	8,254	51	14	1.28	8.9		2,688.09	7	147
	1919	1,359.99	15,415	94	14	1.21	8.8		1,015.60	15,262	53	24	1.60	6.7		6,291.48	10	157
	1920	1,706.75	16,911	112	13	1.27	10.0		1,306.66	14,787	53	23	2.05	9.1		6,948.65	4	169
	1921	2,040.83	22,356	123	15	1.38	9.1		1,532.34	18,996	57	28	2.24	8.1		6,831.32	7	177
	1922	2,257.72	30,281	143	18	1.31	7.2		1,407.11	21,322	48	37	2.44	6.6		6,511.40	15	206
	1923	2,500.63	41,995	159	22	1.31	5.9		1,162.60	22,848	53	35	1.82	5.0		6,453.83	14	226
	1924	2,527.96	53,550	169	27	1.28	4.7		1,229.04	27,402	51	44	1.97	4.5		6,558.02	15	235



## STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Domestic service						Commercial light service						Power service								
	Year	Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	kw-hrs.	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	Total number of consumers
		\$	c.	kw-hrs.	kw-hr.	\$	c.	cts.		cts.	\$	c.	cts.	cts.	\$	c.		cts.	\$	c.	
Bradford—	1919	759.12	.....	60	171.93	11.3	.....	None	869.68	.....	17,940	40	32.2	39	7.5	.....	.....	.....	.....	.....	109
	1920	1,727.98	15,352	89	272.02	7.6	.....	.....	1,350.90	.....	17,940	47	32.2	39	7.5	.....	.....	.....	.....	138	
	1921	2,522.99	33,218	104	272.02	7.6	.....	.....	1,822.52	.....	20,656	44	39.3	45	8.8	.....	.....	.....	.....	150	
	1922	3,032.09	40,024	129	261.96	7.5	.....	.....	1,844.21	.....	21,801	47	39.3	27	8.4	.....	.....	.....	.....	178	
	1923	3,986.23	60,488	137	362.42	6.5	.....	.....	2,477.31	.....	29,991	49	51.4	21	8.2	.....	.....	.....	.....	189	
	1924	4,095.91	54,604	150	322.31	7.2	.....	.....	2,736.69	.....	27,314	50	45.4	56	10.1	.....	.....	.....	.....	203	
Brampton—	1912	3,004.66	.....	409	.....	.....	.....	9 + 15	2,893.74	.....	.....	104	.....	.....	.....	.....	.....	.....	.....	.....	525
	1913	5,617.61	.....	643	.....	.....	.....	.....	3,986.65	.....	.....	138	.....	.....	.....	.....	.....	.....	.....	.....	797
	1914	6,798.89	142,178	627	18.89	4.9	.....	.....	4,055.99	101,751	.....	174	55.2	17	4.0	.....	.....	.....	.....	.....	822
	1915	6,860.48	159,435	691	20.86	4.3	.....	.....	4,053.56	116,717	.....	174	56.1	94	3.5	.....	.....	.....	.....	.....	88
	1916	6,660.66	165,435	722	20.79	4.0	.....	.....	4,013.51	153,542	.....	175	73.1	92	2.6	.....	.....	.....	.....	.....	921
	1917	7,369.15	244,218	771	27.82	3.0	.....	.....	4,185.97	164,055	.....	162	81.2	09	2.6	.....	.....	.....	.....	.....	960
Brantford—	1918	7,942.88	272,601	807	28.83	2.9	.....	.....	4,228.03	171,836	.....	153	91.2	24	2.2	.....	.....	.....	.....	.....	990
	1919	8,818.83	328,391	846	32.85	2.7	.....	.....	4,503.94	205,838	.....	180	95.2	09	2.2	.....	.....	.....	.....	.....	1,058
	1920	9,746.87	416,246	896	39.91	2.3	.....	.....	5,246.44	254,418	.....	182	116.2	40	2.1	.....	.....	.....	.....	.....	1,113
	1921	12,186.84	544,838	964	47.105	2.2	.....	.....	5,659.49	279,256	.....	189	23.2	50	2.0	.....	.....	.....	.....	.....	1,188
	1922	14,393.19	739,206	1,033	60.116	1.9	.....	.....	6,127.54	328,439	.....	193	141.2	65	1.9	.....	.....	.....	.....	.....	1,269
	1923	17,807.01	963,973	1,088	73.136	1.8	.....	.....	7,879.71	370,885	.....	212	145.3	09	2.1	.....	.....	.....	.....	.....	1,352
1924	19,981.44	1,188,064	1,168	88.148	1.7	.....	.....	8,331.81	353,471	.....	212	138.3	27	2.3	.....	.....	.....	.....	.....	1,430	
1914	7,103.77	148,427	1,184	.....	.....	4.8	8 + 13	5,392.87	166,469	.....	300	.....	.....	.....	3.6	8 + 13	647.69	11	.....	.....	1,495

1915	13,629.36	319,439	1,615	19	82	4.3	10,746.67	347,349	321	94	2.89	3.1	12,901.29	18	.....	1,954
1916	17,504.44	468,324	2,056	21	79	3.7	10,530.19	419,933	334	107	2.68	2.5	24,213.00	26	.....	2,316
1917	20,881.94	691,572	2,559	25	75	3.0	10,502.19	655,993	363	157	2.51	1.6	48,639.07	37	2,466	2,959
1918	26,060.42	1,162,002	2,936	35	79	2.2	9,861.64	568,537	361	157	2.27	1.7	54,748.03	40	2,798	3,337
1919	34,615.20	1,280,629	3,530	30	82	2.7	10,632.25	660,518	397	139	2.34	1.6	51,469.32	46	2,601	3,973
1920	44,754.95	2,630,164	3,938	36	95	1.6	10,938.10	945,417	434	165	2.00	1.2	70,609.16	58	3,592	4,430
1921	59,931.17	3,390,735	4,458	63	112	1.8	12,373.68	901,817	530	143	1.95	1.4	79,347.30	80	4,057	5,068
1922	73,887.64	3,948,531	4,861	68	127	1.9	17,127.73	648,274	556	97	2.56	2.6	91,285.54	84	5,590	5,501
1923	89,693.75	5,827,981	5,230	92	143	1.5	22,236.86	1,661,057	587	235	3.15	1.3	82,095.73	90	4,257	5,907
1924	101,846.38	6,540,921	5,337	103	161	1.6	25,042.59	1,996,170	615	277	3.47	1.3	90,901.23	95	4,332	6,047
None																
None																
1918	440.72	.....	250	.....	.....	.....	611.75	16,122	26	52	1.96	3.8	2,950.19	4	101	250
1919	5,325.01	131,271	548	20	81	4.1	670.44	17,434	22	66	2.54	3.8	4,226.65	4	165	578
1920	6,277.87	146,541	391	31	134	4.3	1,171.09	30,779	32	80	3.05	3.8	5,094.81	4	190	417
1921	7,725.17	188,774	515	31	124	4.1	1,538.66	68,542	36	168	3.77	2.2	5,260.09	5	203	551
1922	10,417.45	308,934	492	51	172	3.3	2,287.03	104,305	41	212	4.65	2.2	6,776.71	5	218	533
1923	12,509.06	421,669	563	74	185	2.9	3,061.06	121,114	41	246	6.22	2.5	5,248.17	5	204	609
1924	13,311.64	486,216	572	71	195	2.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	618
None																
None																
1915	148.83	.....	13	.....	.....	.....	407.78	.....	14	.....	.....	.....	1,007.59	1	.....	28
1916	172.42	1,836	16	11	102	9.4	404.70	5,370	20	28	2.00	7.5	1,153.32	1	.....	37
1917	194.03	2,131	19	10	90	9.1	528.24	7,364	20	31	2.20	7.1	1,285.50	2	32	41
1918	277.18	2,631	22	10	112	10.5	552.35	8,177	24	30	2.09	6.7	1,555.32	2	35	48
1919	422.33	5,382	25	18	141	7.8	559.35	9,036	25	30	1.86	6.2	2,157.29	3	58	53
1920	596.76	7,484	24	26	207	8.0	707.93	8,909	21	35	2.81	7.9	1,646.15	2	60	47
1921	650.85	8,317	28	25	194	7.8	1,029.78	10,094	22	39	3.99	10.2	2,036.27	3	62	53
1922	862.55	10,488	32	27	225	8.3	991.84	9,567	23	35	3.67	10.5	1,419.77	2	35	57
1923	955.78	10,190	34	25	234	9.3	841.46	8,232	24	29	2.98	10.3	1,201.16	2	35	60
1924	886.55	10,747	35	26	228	8.8	976.35	8,745	25	35	3.25	9.3	1,326.28	2	35	62
None																
None																
1918	413.29	.....	41	.....	.....	.....	760.17	.....	37	.....	.....	.....	710.37	2	.....	80
1919	625.14	6,817	47	12	111	9.2	1,080.00	11,433	36	27	2.50	9.5	3,289.96	3	79	86
1920	862.91	9,081	57	13	126	9.5	1,384.25	14,863	35	35	3.30	9.3	4,868.57	3	109	95
1921	1,174.28	12,900	71	15	138	9.1	1,276.89	16,937	38	37	2.80	7.5	4,115.94	3	116	112
1922	1,218.06	15,957	78	17	130	7.6	1,399.21	15,320	37	35	3.15	9.0	1,994.87	3	110	118
1923	1,507.04	19,247	85	19	147	7.8	1,500.06	16,532	38	38	3.29	9.1	1,474.22	4	54	127
1924	1,880.91	22,968	89	22	180	8.2	1,330.11	17,784	38	39	2.92	7.5	1,836.86	6	135	133
None																
None																

Brantford Twp.—

Brechin—

Brigden—

## STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Domestic service						Commercial light service						Power service				Total number of consumers		
	Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	kw-hrs.	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers		Average horsepower	Average cost per horsepower
Brockville—																			
1916	12,897.12	144,913	965	131.22	9.0	9.0	9	21,994.02	253,153	312	595.54	8.7	9	15,828.62	31	631	48.72	1,308	
1917	14,507.95	152,066	1,018	121.22	9.5	9.5		22,907.56	246,940	378	575.35	9.3		30,744.84	49	631	48.72	1,445	
1918	15,731.23	162,902	1,146	121.21	9.6	9.6		23,465.06	250,375	353	575.35	9.3		49,047.73	47	631	48.72	1,546	
1919	18,510.68	234,923	1,339	151.15	7.9	7.9		22,816.26	310,515	370	705.14	7.3		37,013.69	56	902	41.04	1,765	
1920	20,943.36	324,733	1,396	201.25	6.4	6.4		20,382.61	368,790	344	894.94	5.6		38,572.72	59	1,113	34.66	1,799	
1921	27,780.61	382,226	1,542	211.50	7.3	7.3		24,960.63	399,529	350	955.94	6.2		43,864.40	65	1,210	36.25	1,957	
1922	31,330.52	434,339	1,686	211.55	7.4	7.4		25,198.96	405,571	374	905.61	6.2		49,391.67	63	1,323	37.33	2,123	
1923	35,622.98	516,382	1,838	231.61	6.8	6.8		26,034.58	418,744	376	935.77	6.2		56,620.78	64	1,688	33.51	2,278	
1924	29,374.80	594,611	2,087	251.25	5.0	5.0		21,015.37	467,693	394	1014.55	4.5		42,903.36	68	1,424	30.13	2,549	
Brussels—(4 months)																			
1924	1,739.64	.....	142	.....	.....	.....		1,005.46	.....	56	.....	.....	.....		206.87	1	.....	.....	199
Burford—																			
1916	577.69	9,005	64	.....	6.4	6.4	Flat	380.44	7,569	30	.....	.....	5.0	Flat	519.72	1	.....	.....	15
1917	834.73	11,519	70	13.98	7.2	7.2		837.51	13,262	34	342.18	6.3			549.31	1	25	21.98	914
1918	1,089.73	15,489	81	161.13	7.0	7.0		922.16	13,700	27	382.56	6.7			434.05	1	25	17.36	109
1919	1,330.31	18,769	100	171.10	7.0	7.0		1,064.23	17,680	32	462.77	6.0			543.25	1	25	21.73	133
1920	2,023.41	25,180	115	191.56	8.2	8.2		1,194.81	17,900	34	453.02	6.7			279.34	1	740	10.00	150
1921	2,817.52	31,375	127	211.84	8.9	8.9		1,673.49	18,555	37	423.77	9.0			132.50	2	4	33.12	166
1922	3,491.08	42,104	139	252.09	8.4	8.4		1,966.34	26,266	42	523.90	7.5			1,057.03	5	36	29.36	186
1923	3,507.24	57,432	152	311.92	6.1	6.1		1,795.05	22,587	38	493.95	7.9			994.82	5	51	19.50	195
1924	3,868.60	71,345	161	382.05	5.4	5.4		1,396.71	16,092	38	353.06	8.7			881.39	4	44	20.03	203



Burgessville—																			
Year	1917	1918	1919	1920	1921	1922	1923	1924	1925	Year	1917	1918	1919	1920	1921	1922	1923	1924	1925
5,299	359	41	5,299	359	41	5,299	359	41	5,299	115.15	1,506	9	12	95	7.7	88	815.36	1	39
4,025	379	94	4,025	379	94	4,025	379	94	4,025	102.66	1,321	10	11	106	9.3	30	875.67	1	43
5,623	423	05	5,623	423	05	5,623	423	05	5,623	127.43	1,375	10	11	1.23	7.6	28	643.88	1	48
8,102	593	18	8,102	593	18	8,102	593	18	8,102	147.91	1,955	10	16	2.3	11.0	30	688.75	1	56
8,281	756	62	8,281	756	62	8,281	756	62	8,281	288.50	2,615	12	18	2.0	11.0	30	821.31	1	57
10,556	757	10	10,556	757	10	10,556	757	10	10,556	257.31	3,131	12	22	1.79	8.1	30	656.82	1	62
11,550	855	50	11,550	855	50	11,550	855	50	11,550	246.85	2,986	12	20	1.72	8.3	30	1,147.62	1	63
11,354	917	77	11,354	917	77	11,354	917	77	11,354	292.51	3,200	15	19	1.74	9.1	30	1,177.05	1	63
Caledonia—										None									
1913	404	60	1913	404	60	1913	404	60	1913	*	.....	16	.....	.....	.....	.....	470.34	1	34
1914	880	54	1914	880	54	1914	880	54	1914	*	.....	32	47	2.44	5.4	.....	188.54	1	54
1915	265	62	1915	265	62	1915	265	62	1915	950.38	18,325	33	47	1.85	4.0	.....	138.42	1	58
1916	263	39	1916	263	39	1916	263	39	1916	777.38	20,000	37	47	1.85	4.0	.....	519.82	3	67
1917	283	63	1917	283	63	1917	283	63	1917	786.20	22,800	38	50	1.72	3.4	.....	777.85	4	.....
1918	354	98	1918	354	98	1918	354	98	1918	807.14	19,464	42	42	1.68	4.1	.....	922.18	4	86
1919	453	53	1919	453	53	1919	453	53	1919	907.76	24,929	45	46	1.68	3.7	.....	733.31	8	97
1920	671	96	1920	671	96	1920	671	96	1920	1,155.64	44,932	49	76	1.97	2.6	.....	989.23	9	118
1921	994	76	1921	994	76	1921	994	76	1921	1,584.02	61,357	55	93	2.40	2.6	.....	1,139.37	7	138
1922	1,202	16	1922	1,202	16	1922	1,202	16	1922	1,731.70	61,842	60	86	2.41	2.8	.....	958.20	7	158
1923	1,481	52	1923	1,481	52	1923	1,481	52	1923	1,828.29	63,631	64	82	2.38	2.8	.....	1,377.07	8	172
1924	1,644	39	1924	1,644	39	1924	1,644	39	1924	2,226.66	80,786	80	93	2.58	2.8	.....	2,658.41	8	201
Cannington—										None									
1915	1,599	40	1915	1,599	40	1915	1,599	40	1915	1,120.04	.....	65	.....	.....	.....	.....	464.26	6	206
1916	1,720	25	1916	1,720	25	1916	1,720	25	1916	973.63	13,808	73	17	1.17	7.1	.....	462.47	7	230
1917	2,040	39	1917	2,040	39	1917	2,040	39	1917	936.22	19,722	70	23	1.10	4.7	.....	495.80	7	214
1918	2,664	80	1918	2,664	80	1918	2,664	80	1918	917.90	16,741	64	20	1.14	5.4	.....	726.87	9	216
1919	2,656	21	1919	2,656	21	1919	2,656	21	1919	1,437.51	24,496	63	33	1.90	5.9	.....	786.09	9	234
1920	3,713	43	1920	3,713	43	1920	3,713	43	1920	2,042.35	24,518	68	30	2.34	7.8	.....	1,132.55	10	254
1921	4,384	72	1921	4,384	72	1921	4,384	72	1921	2,398.50	32,801	70	39	2.85	7.3	.....	1,207.13	11	263
1922	4,563	79	1922	4,563	79	1922	4,563	79	1922	2,491.41	30,794	67	38	3.10	8.2	.....	1,074.84	10	266
1923	4,265	22	1923	4,265	22	1923	4,265	22	1923	2,380.92	43,596	72	52	2.88	5.5	.....	1,148.35	12	278
1924	4,341	90	1924	4,341	90	1924	4,341	90	1924	2,088.42	46,481	66	56	2.52	4.5	.....	1,110.02	10	275
Carleton Place—										6									
1920	8,241	32	1920	8,241	32	1920	8,241	32	1920	6,835.20	229,583	144	133	3.95	3.0	.....	17,787.06	18	798
1921	11,854	98	1921	11,854	98	1921	11,854	98	1921	7,974.78	193,141	150	107	4.43	4.1	.....	20,531.28	13	827
1922	12,654	99	1922	12,654	99	1922	12,654	99	1922	7,206.47	143,660	160	73	3.75	5.0	.....	23,811.52	14	887
1923	13,249	12	1923	13,249	12	1923	13,249	12	1923	7,671.08	157,775	168	78	3.80	4.8	.....	22,900.01	17	940
1924	13,950	50	1924	13,950	50	1924	13,950	50	1924	8,167.48	138,421	174	77	3.98	5.2	.....	27,045.97	16	986



	1921	1922	1923	1924	5,352.03	84,811	269	261.66	6.3	3,523.13	49,937	90	463.26	7.0	7,717.82	14	21535.89	373
Chesterville—	1914	530.13	7,672	68	.....	.....	6.9	None	.....	791.67	10,176	35	.....	7.7	None	.....	.....	103
	1915	919.27	12,663	85	141.00	7.2	7.2	.....	.....	1,187.54	12,104	49	212.06	9.8	.....	.....	.....	134
	1916	1,490.99	15,779	89	171.43	9.4	9.4	.....	.....	1,240.56	15,179	47	262.12	8.2	.....	1	.....	137
	1917	1,505.16	18,395	87	171.42	8.2	8.2	.....	.....	1,226.80	15,360	45	262.18	7.9	2,134.49	2	53.40.27	134
	1918	1,485.76	21,485	96	191.35	6.9	6.9	.....	.....	2,025.36	32,975	48	593.63	6.1	3,520.13	2	95.37.05	146
	1919	1,815.29	30,414	115	241.43	6.0	6.0	.....	.....	2,501.13	46,706	39	985.34	5.4	3,984.91	2	124.32.13	156
	1920	2,618.21	39,488	126	261.73	6.6	6.6	.....	.....	3,085.60	47,642	47	845.47	6.5	6,955.75	2	186.37.40	175
	1921	3,559.07	45,564	143	272.07	7.8	7.8	.....	.....	2,923.10	27,413	56	414.35	10.6	6,133.40	3	183.33.57	202
	1922	3,955.40	50,992	151	282.18	7.7	7.7	.....	.....	2,862.69	26,123	52	424.41	10.5	5,460.28	3	141.38.72	206
	1923	4,098.45	56,004	163	282.09	7.4	7.4	.....	.....	3,209.30	29,274	56	434.77	10.9	7,343.78	3	168.43.71	222
Chippawa—	1924	4,012.00	77,590	180	381.96	5.2	5.2	.....	.....	2,743.04	38,721	62	553.87	7.0	8,582.79	4	196.43.32	246
	1920	2,078.72	39,243	116	402.14	5.3	5.3	None	.....	269.76	.....	23	1.40	.....	.....	.....	.....	139
	1921	2,932.89	70,746	144	411.70	4.1	4.1	.....	.....	723.18	11,910	26	382.32	6.1	.....	.....	.....	170
	1922	3,373.63	75,044	172	361.63	4.4	4.4	.....	.....	706.82	14,871	34	411.96	4.7	1,487.77	3	60.24.80	209
	1923	3,901.58	50,336	190	221.71	7.7	7.7	.....	.....	750.34	16,128	26	512.40	4.6	1,537.85	5	.....	221
Clifford—(5½ months)	1924	3,814.34	52,590	197	231.64	7.1	7.1	.....	.....	752.04	24,768	31	712.17	3.1	766.23	4	37.20.71	232
	.....	.....	.....	54	.....	.....	.....	.....	.....	748.84	.....	29	.....	.....	60.40	1	.....	84
Clinton—	1914	2,023.70	21,466	179	.....	.....	9.4	10 + 25	.....	2,028.08	24,696	111	.....	8.2	1,255.33	7	.....	297
	1915	2,930.57	36,598	204	161.28	8.2	8.2	.....	.....	3,068.63	40,234	110	202.31	7.6	2,018.24	6	.....	320
	1916	3,161.29	41,986	211	171.27	7.5	7.5	.....	.....	3,064.37	41,205	122	312.30	7.4	2,498.04	7	.....	330
	1917	3,320.73	40,965	246	151.19	7.9	7.9	.....	.....	2,654.30	34,471	115	251.92	7.7	2,348.15	7	74.31.73	368
	1918	3,536.08	60,774	258	101.16	5.8	5.8	.....	.....	2,311.42	40,289	121	281.63	5.7	3,655.01	10	114.32.06	389
	1919	4,447.04	78,737	276	231.34	5.6	5.6	.....	.....	3,044.93	54,665	124	372.05	5.5	4,889.74	11	142.32.32	411
	1920	5,013.77	105,302	332	261.26	4.8	4.8	.....	.....	3,586.69	65,248	140	392.13	5.5	4,389.74	11	144.32.31	483
	1921	6,045.27	120,135	361	281.40	5.0	5.0	.....	.....	4,064.94	71,139	130	462.61	5.7	3,957.98	11	142.27.87	502
	1922	6,478.04	132,243	388	281.39	4.8	4.8	.....	.....	4,125.00	82,609	131	532.64	4.9	4,257.12	11	143.29.77	530
	1923	6,253.49	185,553	411	371.26	3.3	3.3	.....	.....	4,001.92	79,860	131	512.54	5.0	7,696.96	11	222.34.67	553
	1924	7,232.03	271,364	433	531.43	2.9	2.9	.....	.....	4,032.42	102,190	132	642.55	4.0	7,298.43	11	190.38.41	576



## STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service						Commercial light service						Power service				Total numbers of consumers			
		Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers		Average horsepower	Average cost per horsepower	
Coldwater																					
1913		\$ 405.43	12,466	48	191.30	6.8	None	\$ 330.25	10,382	132	241.40	5.7	None	cts.	\$	c.	247.19	1		81	
1914		853.56	16,706	62	211.15	5.3	None	589.85	13,686	39	311.54	5.1	None	cts.	617.26		2		103		
1915		874.94	16,599	66	201.20	5.9	None	703.35	16,644	37	311.54	5.1	None	cts.	363.88		2		105		
1916		977.62	22,186	70	251.09	4.4	None	848.82	15,939	39	361.85	5.1	None	cts.	247.91		2		111		
1917		984.41	18,038	75	191.16	5.9	None	640.85	12,857	39	341.37	4.0	None	cts.	182.39		1		115		
1918		1,078.94	21,530	79	147.72	5.2	None	687.48	15,939	38	281.48	5.3	None	cts.	182.39		1		115		
1919		1,134.84	28,034	131	271.36	5.0	None	680.02	14,697	43	291.32	4.5	None	cts.	1,064.00		3		177		
1920		1,415.14	28,927	87	281.63	5.9	None	1,054.87	19,726	47	351.87	4.8	None	cts.	1,548.42		4		138		
1921		1,705.16	34,092	87	301.77	5.7	None	1,306.92	19,955	47	352.32	6.6	None	cts.	2,079.61		4		138		
1922		1,959.10	35,746	97	301.77	5.7	None	1,415.30	21,957	46	352.51	7.0	None	cts.	2,575.81		6		149		
1923		2,034.86	49,382	98	301.73	5.6	None	1,460.25	27,145	49	372.48	6.6	None	cts.	2,841.27		6		153		
1924		1,817.24		111	391.44	3.7	None	1,258.82		48	472.19	4.7	None	cts.	1,468.11		4		163		
Collingwood																					
1913		\$ 7,013.66	83,406	477	161.27	7.6	8.4	9,362.17	108,676	220	462.78	6.1	11+10	cts.	896.72		18		715		
1914		7,857.86	103,598	554	171.00	6.0	6.1	7,555.54	123,276	232	462.78	6.1	11+10	cts.	5,165.39		21		807		
1915		7,094.27	118,336	622	201.04	5.1	6.1	5,688.26	116,583	233	422.04	4.9	11+10	cts.	9,527.70		26		811		
1916		8,320.44	162,464	714	260.94	3.6	3.8	6,213.86	163,956	243	582.18	3.8	11+10	cts.	23,152.41		33		989		
1917		8,734.98	243,070	835	241.05	4.3	3.6	5,398.59	189,485	236	661.99	2.8	11+10	cts.	38,989.24		41		1,112		
1918		11,145.94	257,082	919	379.95	2.7	2.7	6,287.25	226,399	234	801.23	2.7	11+10	cts.	53,323.26		49		1,202		
1919		11,510.41	431,071	1,007	379.95	2.7	2.2	6,080.21	272,538	235	972.17	2.2	11+10	cts.	32,037.22		50		1,292		
1920		13,999.34	523,185	1,077	401.08	2.7	2.3	7,121.77	305,199	242	1052.45	2.3	11+10	cts.	26,092.24		52		1,371		
1921		16,194.56	626,471	1,138	431.19	2.7	2.7	8,511.75	310,447	246	1052.88	2.7	11+10	cts.	18,710.63		53		1,437		
1922		18,019.16	655,716	1,183	471.30	2.7	2.7	9,843.69	392,532	248	132.32	2.5	11+10	cts.	28,899.13		60		1,491		
1923		19,139.43	785,397	1,230	531.29	2.4	2.4	8,457.52	273,316	254	892.77	3.0	11+10	cts.	32,987.40		59		1,543		
1924		19,128.61	918,992	1,273	611.27	2.1	2.2	8,336.32	362,111	255	1182.56	2.2	11+10	cts.	27,403.98		55		1,583		

Comber—		3,181	33	.....	6.8	None	274.49	3,497	33	.....	7.8	None	.....	66
1915	214.87													
1916	538.57	5,894	37	141.32	9.1		678.58	6,729	37	151.50	10.1			74
1917	541.45	6,542	39	141.19	8.3		689.59	7,245	36	171.60	9.5			75
1918	585.12	6,613	41	141.22	8.6		625.91	6,108	35	141.47	10.2			76
1919	740.75	8,609	48	151.29	8.6		865.75	9,253	40	191.80	9.4			88
1920	958.81	12,974	62	201.45	7.4		1,106.74	11,542	40	242.30	9.5			104
1921	1,275.54	15,852	68	201.65	8.0		1,289.89	16,024	40	382.69	8.1			110
1922	1,472.95	17,892	74	201.73	8.2		1,549.37	19,656	42	403.15	7.8			118
1923	1,743.06	30,952	77	351.88	5.6		1,524.22	23,835	42	473.02	6.3			121
1924	1,789.74	40,431	79	431.86	4.3		1,634.10	29,239	47	543.03	5.6			128
Cookstown—		.....	42	.....	.....	None	82.15	.....	12	.....	.....	None	.....	55
1918	259.56													
1919	806.46	12,488	61	171.10	6.5		263.18	4,069	19	181.15	6.4			81
1920	1,388.97	18,047	71	211.63	7.7		468.63	5,809	21	231.86	8.1			93
1921	1,797.47	20,562	76	231.96	8.7		705.24	8,093	23	282.39	8.7			101
1922	1,965.07	22,020	80	232.09	8.8		700.17	8,095	25	282.43	8.6			106
1923	2,024.44	24,999	81	252.09	8.1		811.29	10,679	26	342.60	7.5			108
1924	1,750.23	24,647	73	271.90	7.0		961.09	11,613	36	312.58	8.3			111
Courtright—		20,204	69	242.41	10.0		687.47	9,345	14	564.09	7.1		.....	83
1924	1,993.89													
Creemore—		6,399	78	.....	10.9	Flat	937.84	7,653	59	.....	12.2	Flat	.....	138
1915	699.81													
1916	922.41	9,678	78	141.00	7.2		1,041.90	18,745	44	151.72	11.9			132
1917	973.25	9,257	69	111.11	10.5		1,124.74	11,105	55	191.91	10.1			127
1918	1,070.46	10,159	88	101.13	10.4		1,098.57	10,328	51	161.72	10.6			142
1919	1,229.29	10,812	93	101.11	11.1		1,302.94	12,642	53	202.05	10.4			151
1920	1,448.31	15,168	130	10	9.3		1,413.24	14,558	52	232.26	9.7			188
1921	1,808.03	18,813	111	131.25	9.6		1,683.94	19,383	55	292.39	8.7			172
1922	1,822.54	19,254	122	141.30	9.4		1,506.73	17,375	59	252.20	8.6			187
1923	1,859.32	22,297	126	141.22	8.3		1,406.94	19,539	55	292.13	7.2			187
1924	1,561.35	30,161	131	191.01	5.3		1,121.28	23,162	57	341.67	4.9			195
Dashwood—		3,742	31	8	92.11	5	311.16	2,780	15	121.38	11.0	Flat	.....	47
1918	432.06													
1919	462.51	4,539	35	111.10	10.2		373.22	3,054	18	141.73	12.2			55
1920	578.84	6,017	39	131.26	9.6		408.21	3,870	21	151.62	10.1			62
1921	662.20	7,502	43	141.20	8.8		484.77	3,616	22	121.84	13.4			67
1922	806.68	8,816	46	161.52	9.1		648.38	5,875	24	212.34	11.0			72
1923	954.89	10,333	51	161.56	9.2		713.16	5,941	26	192.28	12.0			79
1924	1,014.24	12,288	53	201.63	8.1		719.78	6,786	25	222.40	10.9			80

## STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service						Commercial light service						Power service						
		Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	Total number of consumers
Delaware—	1915	146.16		22	11	1.35	12.5	None				10			None		1			33
	1916	354.60	2,835	23	11	1.35	12.5	None	114.18			12	14	1.07	7.8					35
	1917	260.94	2,596	24	9	91	10.1		141.64	1,823		12	14	1.21	10.5					36
	1918	277.27	3,472	31	10	84	7.9		203.25	1,947	6	18	1.64	9.0						37
	1919	457.11	3,799	32	10	1.19	11.0		177.94	1,960	11	16	1.18	11.0						43
	1920	852.14	6,285	34	15	2.09	13.5		156.00	1,781	11	15	1.30	8.7						45
	1921	822.74	10,545	42	21	1.63	7.8		171.50	1,962	12	28	3.51	12.7						54
	1922	840.90	19,996	45	21	1.63	7.6		505.52	3,987	7	39	5.43	13.7						52
	1923	829.73	10,940	42	21	1.64	7.5		652.53	4,746	11	35	3.98	11.1						53
	1924	822.45	11,215	43	22	1.59	7.2		525.39	4,713	11	35	3.98	11.1						54
Dereham Twp.—	1922	1,669.78		158					729.12		20									178
	1923	1,505.63							808.96											192
	1924	9,986.44		192																
Dorchester—	1915	579.23	6,840	61			8.5	None	309.88	4,806	18				6.4	None	287.95	2		81
	1916	613.03	7,329	61	10	1.84	8.4		275.82	4,879	16	19	1.35	5.7			667.93	2		79
	1917	768.06	10,046	70	13	98	7.6		177.25	2,583	11	17	1.14	6.9			314.48	2		83
	1918	810.17	9,895	76	11	92	8.1		188.33	2,710	13	18	3.0	6.9			34.81	1		90
	1919	1,043.54	11,187	84	11	1.04	9.3		281.20	2,985	14	18	1.67	9.4			47.14	2		100
	1920	1,274.20	14,260	96	12	1.11	8.9		345.51	5,428	15	30	1.92	6.4			398.94	3		144
	1921	1,511.61	23,328	97	20	1.28	6.5		473.05	7,610	15	42	2.63	6.3			544.88	3		115
	1922	1,717.89	25,175	109	20	1.39	6.8		613.24	8,244	16	44	3.29	7.5			1,203.65	4		129



1923	1,973.07	25,720	117	191.40	7.6	465.45	5,879	15	322.58	7.9	1,450.29	4	49.24	74	136
1924	1,873.31	26,547	124	181.30	7.2	434.44	5,024	16	272.34	8.7	1,212.23	4			144
<b>Drayton—</b>															
1918	942.09		83			580.32		40			1,256.17	2			125
1919	1,431.29	11,060	89	111.34	12.9	973.35	7,450	42	151.93	13.1	1,542.15	1	43	35.86	132
1920	1,582.55	20,312	110	151.20	7.8	1,250.48	15,960	30	44.3	4.7	54.57	2	28	34.09	142
1921	1,925.38	25,262	106	201.58	7.6	1,337.86	19,850	42	40.2	6.8	1,223.58	2	37	33.07	150
1922	2,078.59	23,421	117	171.56	9.2	1,588.41	27,843	33	61.3	4.8	1,566.95	2	34	46.09	152
1923	2,151.10	29,251	119	211.50	7.2	1,530.46	27,922	42	55.3	0.3	1,606.06	2	45	35.69	163
1924	2,277.46	36,964	121	261.58	6.1	1,515.92	25,974	43	51.2	9.7	1,660.84	3	40	41.52	167
<b>Dresden—</b>															
1915	1,093.68		185			1,223.25		109							294
1916	1,995.51	26,473	197	12.87	7.5	1,986.21	30,352	106	241.54	6.5					303
1917	2,158.62	28,977	206	12.87	7.4	1,983.96	28,874	105	231.57	6.9	102.04	1	52	58	312
1918	2,308.18	31,560	209	12.92	7.3	2,254.48	31,305	107	241.77	7.2	1,198.59	2	55	21.79	318
1919	2,711.78	40,529	236	14.97	6.7	2,730.58	44,775	109	34.2	0.9	5,749.20	7	156	36.85	352
1920	3,165.58	49,650	244	171.08	6.4	2,941.56	52,213	106	41.2	3.1	6,765.04	8	206	32.84	358
1921	3,475.26	60,061	256	201.13	5.8	2,808.43	59,402	107	46.2	1.9	5,711.52	12	223	25.61	375
1922	3,596.86	64,325	273	201.13	5.5	2,925.60	66,439	113	50.2	2.1	4,454.51	13	188	23.69	399
1923	3,854.05	80,516	284	231.16	4.7	3,073.85	60,746	112	45.2	2.8	5,867.57	12	226	25.96	408
1924	3,742.14	101,853	304	291.06	3.7	2,874.70	78,135	113	58.2	1.2	5,103.76	13	185	27.58	430
<b>Drumbo—</b>															
1915	304.49		40			288.99		30			159.85	1			71
1916	340.75	4,481	35	10.77	7.5	277.43	3,718	22	151.12	7.6	116.57				57
1917	350.11	4,298	38	10.81	8.1	301.20	4,084	22	151.14	7.4					60
1918	392.90	4,592	44	9.79	8.5	299.10	3,923	22	141.13	7.6			221	57	76
1919	525.50	6,384	48	11.91	8.2	464.76	6,525	23	251.70	7.1	43.15	1	10	20.00	72
1920	722.83	7,484	53	12.13	9.6	674.50	8,686	24	30.2	3.4	199.96	1	61	30	78
1921	949.84	8,490	54	13.14	11.2	671.94	8,500	24	29.2	3.3	109.84	1	61	30	78
1922	1,097.50	13,053	76	171.40	8.4	717.78	9,807	21	35.2	6.0	312.34	1	10	31.23	79
1923	1,187.29	14,858	77	161.28	7.9	728.82	10,749	22	40.2	7.6	380.13	1	10	38.01	98
1924	1,193.10	18,596	77	201.29	6.5	608.83	12,835	22	48.2	3.0	287.25	1	10	28.72	100
											513.64	3	20	25.68	102
<b>Dublin—</b>															
1918	126.62		9			257.07		17			959.99	2			28
1919	186.54	2,400	13	151.20	7.8	352.06	4,650	18	221.63	7.6	826.23	2	29	28.49	33
1920	393.82	5,312	21	211.56	7.4	423.54	5,249	15	28.2	3.5	1,095.00	3	34	32.21	39
1921	503.50	5,920	21	231.99	8.5	562.44	5,816	19	24.2	4.7	1,172.31	2	37	31.68	43
1922	574.41	7,599	20	312.39	7.5	694.68	6,929	22	32.7	7.6	1,027.27	3	32	32.10	45
1923	602.42	6,665	25	222.00	9.1	635.38	5,418	19	23.2	7.8	1,166.44	4	35	33.32	48
1924	610.96	9,552	29	291.89	6.5	647.68	7,637	20	37.2	7.0	1,136.16	4	31	36.64	53

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service						Commercial light service						Power service				Total number of consumers		
		Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers		Average horsepower	Average cost per horsepower
Dundalk—	1916	924.30	.....	88	.....	.....	.....	Flat	960.58	.....	63	.....	.....	.....	.....	618.52	2	.....	.....	153
	1917	926.52	12,065	80	12	92	7.7	.....	872.71	12,718	76	15	1.05	6.9	.....	876.00	4	27	.....	160
	1918	942.02	14,698	91	14	91	6.1	.....	822.35	13,053	60	16	1.01	6.3	.....	1,772.75	4	82	21.61	155
	1919	1,024.86	16,892	99	14	86	6.1	.....	951.61	17,053	71	20	1.12	5.6	.....	2,306.00	4	94	24.54	174
	1920	1,328.45	19,775	99	17	112	6.7	.....	1,284.67	21,418	75	24	1.43	6.0	.....	2,208.80	3	85	25.99	177
	1921	1,597.79	18,834	106	15	124	8.5	.....	1,680.40	29,030	77	31	1.82	5.8	.....	2,558.03	3	84	30.45	186
	1922	1,869.84	22,767	115	17	141	8.2	.....	1,821.35	34,348	75	37	1.99	5.3	.....	2,328.20	3	77	30.24	193
	1923	1,951.86	26,754	122	18	133	7.3	.....	1,764.69	26,126	74	29	1.98	6.7	.....	2,829.70	4	88	32.15	200
	1924	1,785.30	28,736	128	19	119	6.3	.....	1,620.46	30,451	76	34	1.80	5.3	.....	2,986.40	4	95	31.44	208
	Dundas—	1913	3,045.85	.....	377	.....	.....	.....	10+25	4,193.27	.....	134	.....	.....	.....	.....	3,070.40	27	.....	.....
1914		5,349.24	92,168	520	19	99	5.8	.....	4,198.64	119,947	153	69	2.44	3.5	.....	4,305.96	30	.....	.....	703
1915		6,139.97	128,600	613	19	90	4.8	.....	4,310.96	157,477	160	84	2.29	2.7	.....	6,930.54	37	.....	.....	810
1916		6,925.46	146,710	673	19	89	4.8	.....	4,714.78	179,151	168	91	2.39	2.6	.....	10,915.58	35	.....	.....	876
1917		8,335.64	217,654	783	25	95	3.8	.....	4,190.60	154,950	175	75	2.04	2.7	.....	10,284.87	38	659	15.61	996
1918		9,361.34	262,147	861	26	95	4.4	.....	4,428.66	192,116	170	92	2.14	2.3	.....	9,077.00	42	590	15.38	1,073
1919		10,447.60	255,119	631	34	140	4.1	.....	5,111.72	213,941	145	123	2.77	2.3	.....	13,861.02	38	839	16.52	814
1920		8,244.97	423,784	753	47	91	1.9	.....	5,239.16	259,955	158	137	2.76	2.0	.....	21,725.24	42	1,128	19.26	954
1921		11,047.75	426,368	848	42	109	2.6	.....	6,174.18	276,662	170	136	3.03	2.2	.....	21,717.63	50	1,074	20.22	1,068
1922		12,521.50	507,524	924	47	116	2.4	.....	6,386.36	270,767	170	132	3.13	2.3	.....	24,467.72	53	1,265	19.34	1,165
1923	15,046.86	667,581	949	58	123	2.4	.....	6,862.82	282,006	165	142	3.46	2.4	.....	24,542.12	51	1,286	19.08	1,165	
1924	17,799.75	708,811	981	61	154	2.5	.....	7,793.49	280,447	166	141	3.92	2.8	.....	23,853.66	48	1,181	20.20	1,195	













Forest—	1917								1918								1919								1920								1921								1922								1923								1924																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
1917	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	2,890.91	







## STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service							Commercial light service							Power service				
		Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net kw-hr.	Net cost prior to Hydro	Revenue	kw-hrs.	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	Total number of consumers
Hamilton—	1913	\$ 34,451.95	862,937	5,117	...	...	3.9	8 + 25	25,453.99	628,471	924	...	...	4.1	8	\$ 47,415.58	209	...	...	6,250
	1914	74,668.38	1,856,627	8,404	23	92	4.0	4.0	35,125.57	1,309,863	1,375	95	2.55	3.4	...	70,665.43	337	...	...	10,116
	1915	92,207.60	2,514,104	10,595	23	81	3.7	3.0	34,633.16	1,840,920	1,434	109	2.06	1.9	...	84,789.71	406	...	...	12,435
	1916	108,137.22	3,625,059	12,423	26	78	3.0	3.0	36,126.03	2,085,601	1,546	116	2.02	1.8	...	115,224.78	464	...	...	14,433
	1917	135,224.12	5,276,696	14,340	32	84	2.6	2.6	36,740.19	2,426,174	1,668	126	1.91	1.5	...	137,249.87	526	...	...	16,534
	1918	157,020.32	6,582,496	15,421	36	87	2.3	2.3	37,154.72	2,467,464	1,664	123	1.85	1.5	...	172,313.53	523	8,010	17.13	17,608
	1919	187,079.25	8,236,029	17,652	39	88	2.3	2.3	44,372.46	3,501,915	1,826	160	2.02	1.3	...	198,180.83	589	14,007	12.79	20,067
	1920	194,103.14	8,958,561	18,195	41	94	2.3	2.3	44,501.23	3,861,584	1,831	176	2.02	1.1	...	248,270.75	598	18,721	13.26	20,624
	1921	237,348.81	11,042,726	19,822	46	1.00	2.1	2.1	53,217.08	4,432,935	2,021	183	2.20	1.2	...	222,378.34	629	16,312	13.63	22,472
	1922	277,025.34	14,747,340	21,620	59	1.11	1.9	1.9	63,683.93	4,982,377	2,243	195	2.49	1.3	...	272,417.09	678	18,800	14.46	24,541
	1923	356,342.84	20,527,886	24,543	70	1.21	1.7	1.7	94,431.49	6,348,028	2,564	206	3.07	1.5	...	323,465.87	708	21,662	14.93	27,815
	1924	389,531.34	24,411,719	24,556	83	1.32	1.7	1.7	111,271.35	7,030,011	2,630	226	3.57	1.6	...	266,032.24	703	16,586	16.04	27,889
Hanover—	1918	3,981.55	29,694	335	...	...	...	12.5	3,403.10	47,384	92	...	...	...	...	8,034.96	9	169	...	436
	1919	4,708.40	83,594	337	21	1.16	5.6	...	3,023.83	56,924	97	49	2.60	5.3	...	14,737.24	10	413	35.68	441
	1920	6,599.51	123,161	435	24	1.26	5.3	...	3,852.40	76,626	92	53	3.49	6.5	...	16,954.80	14	604	28.07	541
	1921	8,978.84	191,292	467	34	1.60	4.7	...	4,807.51	83,610	110	63	3.64	5.7	...	39,475.98	14	1,162	33.97	591
	1922	10,616.67	337,998	523	40	1.79	4.5	...	5,168.56	99,024	108	76	3.95	5.2	...	45,903.15	16	1,505	30.50	647
	1923	11,073.20	320,410	564	49	1.70	3.5	...	5,016.69	127,184	104	100	4.01	4.0	...	47,046.40	17	1,477	31.85	685
Harriston—	1924	10,527.70	384,635	608	55	1.49	2.7	...	4,960.87	141,660	106	112	3.94	3.5	...	35,818.53	16	1,176	30.46	730
	1917	1,556.49	18,184	132	12	98	8.6	...	1,935.38	21,868	68	27	2.37	8.8	10	2,686.93	6	78	34.45	206

1918	1,774.96	21,205	148	121.05	8.3	10	1,277.37	21,281	67	261.57	6.0	2,663.69	5	8531.33	220
1919	2,063.50	28,480	175	141.04	7.4		1,828.60	25,227	76	282.01	7.2	4,394.24	10	13632.31	261
1920	2,809.01	40,199	202	171.16	7.0		2,377.90	35,117	78	372.54	6.8	9,709.58	7	24040.46	289
1921	3,412.75	51,821	221	191.29	6.6		2,498.35	46,413	78	502.67	5.4	8,326.78	7	23934.84	306
1922	3,517.32	57,614	232	211.29	6.1		2,504.69	37,531	79	402.64	6.7	7,309.26	9	20435.83	320
1923	3,762.07	70,916	245	241.27	5.3		2,633.19	54,860	88	512.49	4.7	7,257.36	9	20235.92	342
1924	3,944.02	86,456	265	281.29	4.6		2,869.88	61,379	85	592.78	4.7	7,968.13	10	21636.89	360
<b>Harrow—(14 months)</b>															
1924	4,267.96	.....	145	.....	.....		3,542.79	.....	55	.....	.....	3,426.58	8	.....	208
<b>Havelock—</b>															
1922	4,476.92	65,021	262	211.42	6.9		1,429.97	16,779	62	241.92	8.5	136.43	1	1027.29	325
1923	4,870.76	68,772	266	211.52	7.0		1,548.84	20,887	62	282.06	7.4	451.55	1	2022.57	329
1924	4,754.16	64,660	261	101.50	7.5		1,282.03	20,186	51	301.89	6.3	2,033.48	2	7826.07	314
<b>Hensall—</b>															
1917	1,038.57	10,872	89	111.06	9.6	12+20	610.79	7,046	36	181.54	8.7	81.39	2	.....	127
1918	1,226.25	11,323	105	9	96	10.8	661.21	5,792	40	121.45	11.4	1,729.36	5	5730.34	150
1919	1,602.39	19,924	116	141.07	8.0		886.86	10,657	43	211.72	8.3	2,703.95	6	12721.29	165
1920	1,864.17	23,805	120	161.29	7.8		1,083.69	11,877	43	232.10	9.1	1,776.05	6	11515.44	169
1921	2,099.20	25,997	121	181.45	8.1		1,391.61	14,850	44	282.64	9.4	1,096.52	6	7015.66	171
1922	2,369.38	27,429	137	181.53	8.6		1,439.11	23,680	45	442.66	6.1	1,220.45	10	8015.07	192
1923	2,591.25	36,592	141	211.53	7.0		1,507.49	15,318	54	232.32	9.8	1,611.38	11	9716.62	205
1924	3,033.50	47,420	149	271.74	6.4		1,489.20	17,873	42	312.59	8.4	2,833.37	12	11923.81	203
<b>Hesper—</b>															
1913	2,189.00	.....	174	.....	.....	10+15	1,684.75	.....	76	.....	.....	5,044.30	11	.....	261
1914	2,635.41	34,848	229	141.09	7.6		1,934.75	35,979	85	372.00	5.4	6,116.27	13	.....	327
1915	2,787.48	39,580	272	11	90	7.0	2,334.15	39,657	90	382.22	5.9	9,017.58	14	.....	376
1916	3,011.73	54,239	277	17	92	5.5	2,012.28	44,900	84	431.93	4.5	11,177.71	12	.....	273
1917	3,679.79	66,932	312	191.04	5.5		2,389.80	53,306	86	522.18	4.5	10,166.33	11	39425.80	409
1918	3,835.53	77,373	336	19	98	4.9	2,024.34	49,635	83	481.99	4.0	9,186.68	13	35725.73	432
1919	4,286.70	92,959	374	21	96	4.6	2,194.16	68,184	84	682.18	3.2	8,554.78	11	29921.92	469
1920	5,626.85	137,540	442	261.06	4.1		2,414.32	69,459	89	652.26	3.5	6,162.54	13	41019.90	544
1921	6,648.35	178,741	480	311.15	3.7		2,803.97	87,965	95	742.46	3.2	7,239.45	17	38718.71	592
1922	8,011.51	235,605	545	381.30	3.4		3,324.81	102,091	103	942.79	3.2	10,230.23	19	49820.54	667
1923	9,891.17	331,625	587	471.26	2.2		3,506.05	111,833	102	912.86	3.1	13,876.75	18	54825.28	707
1924	9,866.44	410,632	611	571.37	2.4		3,650.37	132,883	107	1052.90	2.8	16,726.28	18	60527.81	736







## STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Domestic service						Commercial light service						Power service								
	Year	Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	Total number of consumers	
<b>Kirkfield—</b>																					
1920	78.91			20	161.26	7.9		None	320.95			5	60	3.67	6.1	None					26
1921	318.70	4,046		21	231.88	8.3			705.46	11,494		16	84	4.79	5.7						37
1922	495.95	5,970		22	161.70	10.4			891.31	15,590		15	56	4.53	8.1						38
1923	450.84	4,343		22	161.27	8.0			925.77	11,428		17	55	4.26	7.7						40
1924	451.45	4,574		23					920.92	11,820		18									42
<b>Kitchener—</b>																					
1912	14,585.02			1,022				11+25	19,080.32			422				11+25					1,549
1913	15,291.37			1,291					19,548.91			470		3.65							1,888
1914	17,757.08	359,307		1,694	20	99	4.9		19,549.45	562,630		519	95	3.29	3.5						2,343
1915	19,108.60	494,725		2,032	22	85	3.9		16,807.15	579,303		546	91	2.63	2.9						2,716
1916	20,876.63	582,754		2,407	22	79	3.6		17,323.67	801,789		543	123	2.65	2.2						3,097
1917	24,051.18	748,390		2,712	24	78	3.2		17,494.18	866,798		577	129	2.60	2.2						3,446
1918	26,810.70	860,230		2,822	25	80	3.1		17,033.78	835,734		586	170	2.87	1.7						3,524
1919	31,643.49	1,108,883		3,251	29	81	2.8		20,095.87	1,193,095		586	170	2.87	1.7						4,004
1920	39,506.53	1,513,601		3,524	36	93	2.6		25,744.25	1,474,127		611	201	3.51	1.7						4,314
1921	48,095.22	2,006,311		3,740	45	107	2.4		32,306.38	1,762,746		615	239	4.39	1.8						4,537
1922	59,793.35	3,424,611		4,297	71	124	1.7		41,788.58	2,115,246		663	276	5.45	1.9						5,172
1923	83,773.70	5,004,505		4,619	90	151	1.6		45,887.85	2,692,800		687	327	5.56	1.7						5,529
1924	99,430.08	6,495,430		4,895	114	174	1.5		52,442.55	3,107,263		739	363	6.13	1.7						5,859
<b>Lakefield—</b>																					
1920	571.45			130				Flat	336.69			62									196
1921	2,003.69	29,135		170	14	98	6.9		2,342.58			56									232

1922	2,765.70	42,999	183	201.30	6.4	2,694.98	40,417	66	553.68	6.6	1,992.23	2	59(33.76)	251
1914	4,371.89	63,848	198	261.84	6.8	3,170.08	51,482	71	603.72	6.1	2,603.43	4	79(32.95)	273
1924	3,964.22	65,889	214	271.60	5.9	3,349.58	44,803	71	523.93	7.4	2,172.03	3	65(33.42)	288
<b>Lambeth</b>														
1915	344.47	2,991	49	.....	11.5	119.00	1,042	9	.....	11.4	559.82	1	.....	59
1916	575.65	6,880	54	11	91	208.96	.....	13	1.58	8.3	249.36	1	.....	68
1917	721.51	7,655	65	11	1.04	252.56	2,577	13	161.62	9.8	182.50	1	.....	79
1918	833.23	9,978	63	13	1.08	208.28	1,976	11	131.44	10.5	392.22	1	5	75
1919	935.30	10,761	75	12	1.04	289.64	2,701	16	141.51	10.7	309.87	2	35	93
1920	1,242.88	14,627	72	18	1.55	339.28	3,179	14	192.02	10.7	312.00	2	12(26.00)	88
1921	1,616.48	18,667	86	18	1.57	414.56	4,341	22	161.57	9.5	305.58	2	35	110
1922	1,931.32	28,023	103	25	1.69	525.13	5,298	22	201.99	9.9	326.27	2	20(16.31)	127
1923	2,521.75	.....	.....	.....	.....	613.91	.....	.....	.....	.....	345.37	.....	.....	.....
1924	2,629.81	63,306	109	48	2.01	603.59	9,178	16	483.14	6.5	331.53	2	.....	127
<b>Lanark</b>														
1922	1,735.71	17,837	81	17	1.78	1,547.66	10,391	27	324.78	14.9	109.71	2	6(18.29)	110
1923	1,966.24	20,936	82	21	1.98	1,190.69	8,486	29	343.42	14.1	138.13	2	8(17.26)	113
1924	1,805.02	16,636	82	17	1.83	1,201.76	7,117	27	213.58	17.0	114.49	2	8(14.31)	111
<b>Lancaster</b>														
1922	1,230.64	11,182	54	17	1.90	971.84	7,316	23	263.52	13.3	.....	.....	.....	77
1923	1,557.48	14,156	70	16	1.85	951.36	6,984	22	263.60	13.6	78.34	1	.....	93
1924	1,721.60	16,759	67	20	2.11	1,201.36	10,755	27	364.00	11.1	71.20	1	2(33.90)	95
<b>Leamington—(14 months)</b>														
1924	24,190.62	.....	915	.....	.....	17,782.24	.....	182	.....	.....	7,666.61	22	.....	1,119
<b>Listowel</b>														
1917	2,500.80	54,842	243	19	86	3,168.19	51,233	125	342.11	6.2	3,385.58	12	112(30.23)	380
1918	3,820.77	65,119	256	21	1.27	2,820.74	58,248	128	381.85	4.8	7,180.07	13	233(30.81)	397
1919	4,311.53	89,975	332	23	1.08	2,971.08	71,343	135	441.91	4.2	10,922.17	18	281(38.86)	485
1920	5,657.29	137,168	377	30	1.25	3,884.08	102,600	132	652.62	4.0	13,143.78	20	363(36.21)	529
1921	8,190.77	214,353	458	39	1.49	4,700.32	141,059	142	832.76	3.3	12,982.05	18	382(33.98)	618
1922	9,584.04	250,128	495	44	1.67	5,702.40	138,475	141	823.35	4.1	11,307.49	19	357(31.67)	655
1923	10,337.16	308,432	540	47	1.74	5,658.00	143,711	143	833.29	3.9	11,003.39	23	366(30.06)	706
1924	9,201.01	319,065	570	57	1.38	4,719.75	159,775	140	942.78	3.0	9,549.15	20	333(28.68)	730





Lucan—	1915	824.07	12,047	87	11	1.00	9.3	None	687.37	8,370	39	17	1.78	10.2	None	18.66	3	129	
	1916	1,124.73	12,047	98	11	1.00	9.3	857.11	8,370	42	17	1.82	12.0	7.243	39	151.91	7.5	147	
	1917	1,283.01	16,701	103	14	1.07	7.7	870.97	7,243	39	15	1.82	12.0	885.28	38	25.1.91	7.5	142	
	1918	1,309.20	15,264	109	12	1.03	8.5	885.28	11,739	38	25	1.91	7.5	921.25	39	97.1.97	6.5	155	
	1919	1,566.54	26,105	115	19	1.14	6.0	921.25	14,136	39	97	1.97	6.5	885.18	41	35.1.80	5.1	163	
	1920	1,854.20	43,863	127	29	1.22	4.2	885.18	17,248	41	35	1.80	5.1	1,025.25	40	44.2.14	4.8	178	
	1921	2,343.88	69,421	135	43	1.45	3.4	1,081.12	16,774	40	44	2.14	4.8	1,081.12	38	36.2.31	6.4	185	
	1922	2,737.74	71,976	150	42	1.59	3.8	1,062.78	16,865	39	36	2.27	6.3	1,062.78	39	36.2.27	6.3	197	
	1923	3,414.42	82,475	153	44	1.85	4.1	997.64	20,575	39	44	2.14	4.9	997.64	39	44.2.14	4.9	199	
	1924	3,122.94	102,646	155	55	1.69	3.1	2,527.54	20,145	66	25	3.19	12.5	2,527.54	69	20.3.14	15.6	201	
Lucknow—	1922	2,679.21	26,031	137	16	1.63	10.2	2,605.21	16,610	69	20	3.14	15.6	2,605.21	70	37.3.37	9.1	204	
	1923	3,135.27	32,900	155	17	1.68	9.5	2,831.76	31,160	70	37	3.37	9.1	2,831.76	70	37.3.37	9.1	226	
	1924	3,539.73	44,557	172	23	1.81	7.9	None											
Lynden—	1916	254.76	3,500	24	7	3	7.3	None	227.57	4,430	10	5	5.1	5.1	None	650.38	1	35	
	1917	272.49	3,498	24	7	7	7.7	213.11	3,576	11	44	1.75	3.9	213.11	11	44.1.75	3.9	36	
	1918	304.17	4,971	25	17	1.35	6.1	231.50	5,914	11	52	1.81	3.5	231.50	16	52.1.81	3.5	37	
	1919	444.75	7,553	47	13	79	5.9	347.65	9,897	16	53	2.27	4.3	347.65	16	53.2.27	4.3	64	
	1920	897.94	13,406	51	22	1.47	6.7	435.63	10,185	16	48	2.21	4.6	435.63	18	48.2.21	4.6	76	
	1921	1,191.73	17,888	57	26	1.74	6.6	478.11	10,462	18	48	2.21	4.6	478.11	15	48.2.21	4.9	82	
	1922	1,343.50	24,227	66	32	1.78	5.7	455.15	9,288	18	45	1.95	4.2	455.15	18	45.1.95	4.2	91	
	1923	1,449.09	25,334	72	29	1.67	5.7	422.70	9,867	18	54	2.30	4.2	422.70	18	54.2.30	4.2	91	
	1924	1,392.88	31,668	72	36	1.61	4.5	496.05	11,752	18	54	2.30	4.2	496.05	18	54.2.30	4.2	91	
	Markdale—	1917	1,241.47	106	106	10	1.05	5.8	None	1,105.58	862.43	68	32	1.22	3.8	10	718.89	3	177
1918		1,672.90	108	108	10	1.05	5.8	862.43	24,481	66	32	1.22	3.8	862.43	66	32.1.22	3.8	179	
1919		1,611.23	28,763	124	19	1.08	5.6	937.23	26,180	69	32	1.65	5.0	937.23	64	32.1.65	5.0	190	
1920		2,054.17	29,830	114	19	1.28	6.7	1,321.06	26,180	69	32	1.65	5.0	1,321.06	69	32.1.65	5.0	191	
1921		2,496.08	48,407	158	26	1.32	5.1	1,550.66	30,600	66	33	1.96	6.0	1,550.66	66	33.1.96	6.0	233	
1922		2,623.46	48,276	149	27	1.47	5.5	1,695.41	30,600	75	34	2.02	6.0	1,695.41	75	34.2.02	6.0	234	
1923		2,516.70	54,613	153	29	1.37	4.6	1,872.20	42,302	72	48	2.16	4.4	1,872.20	72	48.2.16	4.4	234	
1924		2,584.59	60,239	157	32	1.39	4.3	1,591.52	37,168	71	44	1.87	4.2	1,591.52	71	44.1.87	4.2	237	
Markham—		1920	1,735.33	130	130	10	1.05	5.8	None	790.25	9,248	33	19	2.59	14.1	10+25	577.79	4	167
		1921	3,263.60	27,616	169	14	1.61	11.8	1,303.84	9,248	42	19	2.59	14.1	1,303.84	42	19.2.59	14.1	247
	1922	3,116.38	38,147	189	12	1.45	8.2	1,325.79	11,837	45	23	2.57	11.2	1,325.79	45	23.2.57	11.2	240	
	1923	3,487.96	44,059	194	18	1.49	7.9	1,236.62	15,302	49	26	2.10	8.1	1,236.62	49	26.2.10	8.1	248	
	1924	3,515.80	58,464	212	24	1.44	6.0	1,631.67	20,896	48	36	2.83	7.8	1,631.67	48	36.2.83	7.8	266	

† London and Port Stanley Railway and London Street Railway revenue excluded.

## STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service						Commercial light service						Power service				Total number of consumers
		Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	kw-hrs.	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	
Marmora—	1922	\$ 2,150.59	19,097	110	14	1.63	11.2	cts.	1,609.85	12,939	43	253.12	12.4	159.42	3	8.19	93	156
	1923	2,026.81	24,060	146	14	1.16	8.4		1,294.90	15,191	43	292.50	8.5	260.08	4	15.17	33	193
	1924	2,116.86	28,051	131	17	1.27	7.5		1,268.52	18,400	44	352.43	7.0	216.93	4	15.14	46	179
Martintown—	1922	514.19	6,150	25	21	1.71	8.3		452.72	4,293	11	333.43	10.5					36
	1923	571.65	6,480	24	22	1.98	8.8		433.07	3,869	12	263.00	11.1				36	
	1924	687.35	6,596	28	21	2.20	10.5		538.33	4,292	13	283.45	12.3				41	
Maxville—	1922	2,003.68	21,472	86	21	1.94	9.3		2,079.24	20,860	58	302.99	9.9	507.53	2	41.12	38	146
	1923	2,140.40	20,550	104	16	1.71	10.4		2,222.09	24,906	47	443.93	8.7	855.46	4	33.25	92	155
	1924	2,480.65	23,184	112	18	1.91	10.6		2,115.84	26,113	43	483.92	8.2	1,278.82	2	34.37	61	157
Meaford—(16 months)	1924	13,042.58		493					9,229.46		121				3,750.41	11		625
Merlin—	1924	1,846.42	25,143	86	24	1.79	7.5		1,178.25	14,503	30	403.27	8.2	4,301.85	3	87.49	44	119
Merrittton—	1921	6,010.43	185,000	603	24	83	3.2	Flat	1,238.58	65,121	58	941.78	1.9	3,203.78	5	156.20	54	666





## STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Domestic service							Commercial light service							Power service						
	Year	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	Total number of consumers	
<b>Mimico—</b>																					
1913	2,021.06	250	91,184	462	.....	.....	5.4	8+25	*	.....	3,462	10	.....	.....	5.4	8+25	795.49	5	.....	.....	255
1914	5,085.16	462	105,884	609	17	90	5.4	.....	*	.....	6,551	7	40.2	14	5.3	.....	963.64	5	.....	.....	477
1915	5,748.44	609	137,318	621	18	95	5.1	10,982	346.49	10,982	31	38.1	7.0	4.6	.....	.....	1,042.11	3	.....	.....	619
1916	7,011.08	704	177,916	704	21	93	4.2	883.24	506.44	19,361	39	46.2	10	4.6	.....	.....	1,449.14	8	.....	.....	660
1917	7,409.73	704	202,311	615	25	91	3.5	942.82	883.24	24,173	32	56.2	21	3.9	.....	.....	2,750.59	11	133	20.68	754
1918	7,209.82	703	281,185	703	33	1.04	3.1	1,061.76	942.82	29,770	34	73.2	26	3.6	.....	.....	4,357.12	9	195	22.34	656
1919	8,759.21	703	281,185	703	33	1.04	3.1	1,061.76	942.82	29,770	34	73.2	26	3.6	.....	.....	4,189.20	9	192	21.82	746
1920	12,325.03	841	508,282	841	50	1.22	2.4	1,305.90	1,061.76	43,750	45	81.2	33	2.9	.....	.....	3,896.30	8	189	20.62	894
1921	13,068.97	927	653,445	927	59	1.17	2.0	2,008.37	1,305.90	75,460	66	95.2	54	2.7	.....	.....	3,823.58	9	209	18.29	1,002
1922	16,083.14	1,036	977,153	1,036	89	1.36	1.6	2,452.03	2,008.37	112,580	85	1.25	2.72	2.2	.....	.....	5,259.27	9	262	20.07	1,130
1923	23,008.62	1,194	1,467,605	1,194	103	1.60	1.5	3,837.91	2,452.03	171,744	98	1.46	3.26	2.2	.....	.....	6,711.56	11	292	22.90	1,303
1924	28,280.20	1,308	1,739,172	1,308	116	1.88	1.6	5,442.68	3,837.91	219,159	112	1.74	4.32	2.5	.....	.....	4,785.29	12	227	21.08	1,432
<b>Mitchell—</b>																					
1912	2,964.48	159	.....	.....	.....	.....	.....	Flat	2,977.08	.....	79	.....	.....	.....	.....	Flat	4,597.03	13	.....	.....	251
1913	2,362.52	179	.....	.....	.....	.....	.....	.....	2,813.92	.....	85	.....	.....	.....	.....	.....	6,160.53	16	.....	.....	270
1914	2,470.29	191	.....	.....	.....	.....	.....	.....	2,712.55	.....	100	.....	.....	.....	.....	.....	3,944.91	16	.....	.....	307
1915	2,379.58	190	.....	.....	.....	.....	.....	.....	2,684.01	.....	95	.....	.....	.....	.....	.....	2,333.08	17	.....	.....	292
1916	2,311.80	218	33,759	218	14	95	6.8	.....	2,677.35	39,211	103	33.2	25	6.8	.....	.....	3,231.56	21	167	24.96	342
1917	2,572.51	212	41,022	212	16	1.01	6.3	.....	2,774.59	49,323	104	39.2	22	5.6	.....	.....	4,169.05	22	196	24.96	338
1918	2,730.62	216	46,956	216	18	1.06	5.8	.....	2,944.34	51,294	102	41.2	38	5.7	.....	.....	4,834.06	22	190	25.44	341
1919	2,816.95	266	41,556	266	13	88	6.8	.....	3,136.32	51,396	105	41.2	49	6.1	.....	.....	4,869.61	21	196	24.84	392
1920	4,183.47	298	89,601	298	25	1.17	4.7	.....	3,588.97	77,765	106	61.2	82	4.6	.....	.....	5,798.65	21	224	25.89	425
1921	4,660.66	330	101,018	330	24	1.18	4.6	.....	3,010.46	72,737	104	58.2	49	4.3	.....	.....	5,542.41	21	228	24.31	455
1922	5,355.08	362	163,706	362	39	1.29	3.3	.....	3,337.99	81,244	104	65.2	67	4.1	.....	.....	5,701.36	21	232	24.57	487

1923	6,298.13	206,004	375	451.39	3.0	3,512.16	95,684	104	762.81	3.6	6,388.28	24	247.25.86	503
1924	6,988.37	240,543	393	521.52	2.9	3,372.66	98,397	106	782.67	3.4	6,133.81	24	246.24.93	523
<b>Moorefield—</b>														
1918	175.36	.....	16	.....	.....	217.24	.....	15	.....	.....	888.57	1	.....	32
1919	341.45	3,507	21	141.35	9.7	342.50	2,870	15	161.90	11.9	1,292.62	2	40.32.32	38
1920	498.92	5,304	26	171.60	9.5	431.99	4,080	17	202.12	10.6	1,262.83	2	38.33.23	45
1921	637.19	7,101	26	232.04	9.0	540.33	5,310	20	22.25	10.2	1,285.41	2	35.36.73	48
1922	712.43	7,465	31	212.05	9.5	575.24	5,773	19	25.21	10.0	1,368.96	2	38.36.03	52
1923	806.16	9,098	35	211.91	8.8	622.67	6,680	17	32.3.10	9.4	1,502.15	2	39.38.51	54
1924	837.08	10,262	44	211.74	8.3	683.24	8,162	17	40.3.35	8.4	1,549.91	2	42.36.90	63
<b>Mt. Brydges—</b>														
1915	333.43	.....	45	.....	.....	494.02	.....	15	.....	.....	517.50	1	.....	61
1916	644.75	5,058	55	81.07	12.7	170.46	3,106	15	17	95	760.58	2	.....	72
1917	540.17	6,481	58	9	8.3	344.16	3,481	20	171.69	9.9	627.07	2	27.23.22	80
1918	601.52	7,323	67	9	80	324.44	3,396	17	151.40	9.1	750.69	1	25.30.02	85
1919	811.17	8,900	64	121.06	8.9	324.11	3,051	22	121.23	10.6	822.74	1	26.31.64	87
1920	1,130.15	13,440	84	131.04	8.4	434.78	2,736	19	121.91	15.8	707.73	1	23.30.77	104
1921	1,398.23	12,266	77	131.51	11.4	457.24	4,446	20	191.91	10.3	836.68	1	18.46.48	91
1922	1,398.02	17,208	89	171.40	8.1	540.62	5,800	24	22.2.05	9.3	737.60	1	18.40.98	114
1923	1,610.92	23,240	96	201.39	6.9	591.31	7,169	26	23.1.89	8.2	889.39	1	21.42.35	123
1924	1,645.47	31,735	100	281.40	5.0	537.95	7,140	25	24.1.79	7.5	935.82	2	24.39.00	127
<b>Mt. Forest—</b>														
1916	1,967.03	27,337	106	.....	7.2	2,420.75	39,059	164	.....	6.2	1,739.79	7	.....	277
1917	2,171.91	40,286	176	231.28	5.4	2,556.41	37,914	107	30.1.99	6.7	2,533.40	4	136.19.63	287
1918	2,171.73	32,336	187	14	99	2,419.72	42,176	107	32.1.88	5.7	3,132.19	4	147.21.30	298
1919	2,596.70	43,495	196	19.1.10	6.0	2,809.05	59,310	117	42.2.00	4.7	3,561.63	5	152.23.43	318
1920	2,959.09	48,732	205	20.1.20	6.0	3,625.36	62,877	127	41.2.38	5.8	4,182.42	9	207.20.20	344
1921	4,050.74	66,539	239	23.1.41	6.1	5,279.82	76,899	128	50.3.44	6.9	5,219.42	10	203.25.71	377
1922	4,683.40	74,673	260	25.1.56	6.2	5,965.31	86,502	130	56.3.85	6.9	4,996.49	7	202.24.74	399
1923	4,894.10	87,860	274	26.1.48	5.5	5,472.11	77,866	133	48.3.42	7.0	3,518.14	5	186.18.91	412
1924	4,418.91	104,525	310	30.1.26	4.2	4,680.69	116,304	132	73.2.96	4.1	4,919.83	6	191.25.79	448
<b>Neustadt—</b>														
1919	419.91	5,586	45	10	78	475.59	7,332	24	25.1.65	6.6	389.93	2	16.24.37	71
1920	813.48	14,425	51	24.1.33	5.6	526.21	8,047	26	26.1.69	6.5	2,656.17	4	88.30.18	81
1921	1,159.34	15,187	55	23.1.76	7.6	737.42	6,222	29	18.2.12	11.8	3,214.94	4	92.34.95	88
1922	1,683.22	.....	61	.....	.....	982.18	.....	30	.....	.....	7,690.74	4	.....	95
1923	1,388.03	.....	68	.....	.....	1,099.61	.....	29	.....	.....	5,923.43	5	137.43.23	102
1924	1,542.94	17,591	67	22.1.92	8.7	1,040.23	9,854	30	27.2.89	10.7	5,667.84	5	129.44.11	102



## STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service						Commercial light service						Power service				Total number of consumers		
		Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	kw-hrs.	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers		Average horsepower	Average cost per horsepower
Newbury																				
	1922	683.98	9,946	43	191.34	6.9			543.61	4,973	20	212.26	10.9			778.83	1	25	31.15	64
	1923	751.02	8,493	44	161.42	8.9			529.29	4,478	23	161.91	11.8			899.48	1	27	33.31	68
	1924	728.47	9,042	48	161.32	8.2			583.12	6,169	23	222.11	9.6			920.14	1	26	35.39	72
New Hamburg																				
	1912	1,195.08		124				10	1,423.35		63					3,369.05	5			194
	1913	1,589.21		142					1,890.72		63					5,792.20	8			212
	1914	1,779.90	23,010	170	12	89	7.7		1,403.65	19,404	68	251.78	7.2			5,209.51	6			243
	1915	1,888.04	33,913	187	16	88	4.9		1,273.38	23,041	70	271.54	5.5			2,825.57	4			261
	1916	1,816.44	37,109	196	16	79	5.5		1,211.25	26,492	70	321.39	4.6			1,646.90	4			270
	1917	2,052.95	40,407	184	18	93	5.1		1,481.03	34,156	69	411.79	4.3			4,299.65	9	188	22.87	262
	1918	2,331.00	45,778	192	20	1.03	5.0		1,410.88	40,225	67	491.73	3.5			4,784.71	9	220	21.74	268
	1919	2,597.55	46,124	208	19	1.04	5.5		1,540.57	40,137	64	522.01	3.8			5,517.79	10	244	22.61	282
	1920	2,987.68	77,692	222	27	1.12	4.1		1,615.92	37,812	66	482.04	4.3			5,613.62	12	240	23.39	300
	1921	3,570.31	99,781	231	36	1.29	3.6		1,751.04	44,237	63	592.32	4.0			5,253.46	11	259	20.28	305
	1922	4,033.81	121,551	222	45	1.49	3.3		2,040.13	53,832	78	642.43	3.8			6,732.68	13	279	24.13	313
	1923	4,799.76	163,995	268	50	1.49	2.9		2,265.63	50,391	71	592.66	4.4			8,565.03	14	309	27.71	353
	1924	4,806.71	189,180	291	56	1.43	2.6		2,325.57	80,281	77	902.62	2.9			10,101.95	14	354	28.53	382
New Toronto																				
	1914	653.50	11,947	100			7.0	8+25			4			7.0	8+25		1			105
	1915	1,416.10	19,520	153			5.5				8			5.5		2,140.36	2			163
	1916	1,571.03	29,162	210			5.4		143.32	5,956	10			5.4		9,744.31	4			224
	1917	2,451.49	46,080	320	14	77	5.3		566.42	7,680	22	402.95	7.4			30,726.27	8	1,554	19.77	350
	1918	2,631.82	50,723	400	11	60	5.1		1,113.87	18,968	22	714.22	5.8			64,854.19	10	2,689	24.11	432
	1919	4,009.94	94,392	473	18	77	4.3		3,143.60	78,720	41	2058.19	4.0			79,353.15	14	3,250	24.41	528

1920	6,602.26	183,717	537	281.02	3.6	2,979.37	99,372	57	169 5.07	3.0	97,272.13	12	4,362.22.30	606
1921	6,731.42	314,718	631	42 89	2.1	3,798.61	199,688	73	256 4.87	1.9	66,294.41	14	3,399.19.50	718
1922	9,039.13	346,958	761	42 1.08	2.6	4,089.35	203,510	87	212 4.26	2.0	43,232.18	15	2,399.18.02	863
1923	13,350.62	620,622	829	63 1.34	2.1	6,176.34	280,063	99	226 5.19	2.2	66,486.92	18	2,795.23.78	946
1924	15,544.79	689,910	886	67 1.51	2.2	6,349.73	279,481	103	231 5.24	2.3	63,764.14	16	2,417.26.38	1,005
<b>Niagara Falls—</b>														
1916	21,733.29	.....	2,050	.....	.....	13,259.02	.....	400	.....	.....	9,613.01	80	.....	2,530
1917	22,566.76	867,639	2,273	31 99	2.6	11,012.51	651,884	405	134 2.27	1.7	18,804.36	55	713.13.49	2,733
1918	26,423.31	882,171	2,447	31 93	2.9	10,692.04	528,376	418	107 2.16	2.0	22,242.65	61	1,480.15.03	2,926
1919	33,221.90	1,419,901	2,648	45 1.05	2.4	12,639.15	899,210	456	164 2.31	1.4	24,686.72	75	1,905.12.96	3,179
1920	46,839.29	2,378,263	2,907	68 1.34	2.0	15,366.26	909,516	488	155 2.62	1.7	28,739.95	86	2,102.13.67	3,481
1921	59,722.54	3,598,610	3,048	99 1.63	1.6	21,209.21	1,376,527	528	217 3.35	1.5	33,220.24	90	2,505.13.26	3,666
1922	72,634.03	4,718,606	3,163	127 1.95	1.5	26,699.31	2,140,826	542	334 4.16	1.2	38,485.41	93	2,687.14.32	3,798
1923	82,424.59	6,132,605	3,329	153 2.06	1.3	30,780.07	2,657,368	546	405 4.69	1.2	52,157.69	87	2,890.18.04	3,962
1924	93,779.71	6,942,792	3,499	169 2.29	1.4	36,889.06	2,701,477	552	410 5.60	1.4	43,760.54	77	2,201.19.88	4,128
<b>Niagara-on-the-Lake—</b>														
1919	.....	.....	274	.....	.....	.....	.....	58	.....	.....	.....	5	.....	337
1920	5,544.75	.....	275	1.68	.....	2,796.38	.....	69	3.38	.....	1,301.68	5	78.16.69	349
1921	5,847.10	.....	306	1.60	.....	3,291.89	.....	74	3.71	.....	2,544.90	6	12.21.21	386
1922	5,769.68	156,879	319	42 1.54	3.7	2,777.10	71,474	77	79 3.09	3.7	2,467.05	7	99.24.92	403
1923	5,842.89	190,306	333	47 1.46	3.0	2,505.01	72,382	79	77 2.74	3.5	2,389.42	7	102.23.42	419
1924	5,712.98	202,418	360	48 1.37	2.9	2,387.66	74,075	78	79 2.55	3.2	816.99	9	44.18.56	447
<b>North York Twp.—(13 months)</b>														
1924	14,797.22	.....	655	.....	.....	1,798.39	.....	37	.....	.....	1,720.29	10	.....	702
<b>Norwich—</b>														
1912	862.17	.....	128	.....	.....	674.48	.....	64	.....	.....	263.93	2	.....	194
1913	1,926.78	28,172	166	15 1.09	6.8	1,162.98	17,917	76	20 1.38	6.5	1,978.55	3	.....	245
1914	2,168.13	35,578	198	16 99	6.2	1,095.16	20,690	84	22 1.04	6.4	1,893.72	3	.....	285
1915	2,529.91	37,082	228	16 99	6.2	1,075.79	25,880	80	26 1.09	4.2	2,169.31	5	.....	313
1916	2,319.58	49,858	254	18 84	4.7	1,168.34	24,909	87	25 1.16	4.7	2,642.97	6	.....	327
1917	2,672.38	55,968	244	19 89	4.7	1,198.97	24,854	82	25 1.19	4.8	4,116.38	10	137.30.05	448
1918	3,042.12	87,510	242	30 1.06	3.4	1,064.13	23,559	78	24 1.11	4.5	2,481.63	8	87.28.52	328
1919	3,529.64	101,324	280	30 1.05	3.5	1,566.15	34,149	76	37 1.55	4.5	2,370.22	8	97.24.44	364
1920	4,136.42	118,478	291	34 1.18	3.5	1,915.42	42,434	84	42 1.90	4.5	2,902.47	10	111.26.15	385
1921	4,824.49	155,413	305	42 1.32	3.2	2,235.71	48,524	85	48 2.20	4.6	3,022.99	7	118.25.62	397
1922	5,209.87	161,790	330	43 1.37	3.2	2,736.17	55,865	92	53 2.31	4.4	2,426.59	8	113.21.47	430
1923	5,986.24	176,237	338	43 1.47	3.3	2,736.49	67,221	92	60 2.49	4.1	3,067.52	8	125.24.54	438
1924	5,346.88	222,094	339	55 1.32	2.4	2,739.80	68,404	89	63 2.51	4.0	3,803.89	8	116.32.79	436

## STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service						Commercial light service						Power service						
		Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	Total number of consumers
Norwood—																				
	1918	87.68	36,746	161	191.25	6.6		1,627.72	22,199	66	282.06	7.3				744.35	4	4217.72	231	
	1922	2,413.40	39,980	178	191.34	7.1		1,774.20	24,038	70	292.11	7.3				1,496.49	3	5925.35	251	
	1924	3,028.79	53,015	187	241.38	5.7		1,689.45	23,139	70	282.01	7.2				1,229.52	2	4726.16	259	
Oil Springs—																				
	1918	87.68		18			None	73.85		7						2,240.03	2		27	
	1919	214.44		20				173.97		10						4,151.58	3		33	
	1920	366.49		20				319.75		12						5,684.03	6		38	
	1921	701.04	10,587	42	211.39	6.6		503.45	6,975	17	342.40	7.2				6,970.28	33	17739.38	92	
	1922	795.54	12,624	48	231.47	6.3		527.91	7,023	21	312.32	7.5				12,387.37	35	28543.46	104	
	1923	972.72	14,564	49	251.65	6.7		644.31	9,540	25	322.15	6.7				12,635.26	35		109	
	1924	947.40	20,970	65	311.39	4.5		731.22	11,505	29	352.25	6.4				11,511.05	38	30038.37	132	
Omamee—																				
	1918	480.37		58			Flat	419.07		23						54.78	3		84	
	1919	733.28	10,387	70	12.87	7.0		623.24	9,530	29	241.79	7.5				670.27	5	3917.19	104	
	1920	999.89	15,708	83	171.08	6.4		681.07	10,000	24	322.18	6.8				248.29	5	1319.10	112	
	1921	1,213.80	22,000	84	221.20	5.5		781.01	12,000	30	372.29	6.2				2,081.00	6	13315.65	120	
	1922	1,543.01	22,778	92	221.46	6.8		846.54	13,548	31	382.35	6.2				4,269.89	7	14729.25	130	
	1923	1,734.41	24,800	106	201.36	6.9		882.26	13,500	30	372.45	6.5				4,702.80	7	16029.39	143	
	1924	1,773.36	36,544	110	281.37	4.9		836.43	15,649	33	412.21	5.4				3,680.41	7	15823.29	150	
Orangeville—																				
	1917	1,641.42	22,895	144	13.95	7.2	10	1,903.38	32,805	82	331.93	5.8				2,902.60	4	13322.58	230	
	1918	1,891.77	30,456	155	171.05	6.2		2,031.03	44,300	90	422.01	4.6				3,197.89	5	9732.96	250	
	1919	2,390.39	39,464	179	191.11	6.0		2,352.35	62,441	97	542.02	3.8				3,797.70	7	14126.93	283	





## STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service						Commercial light service						Power service				Total number of consumers				
		Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	kw-hr.	c.	cts.	per kw-hr.	Net cost prior to Hydro	Revenue		c.	cts.	Average horsepower	Average cost per horsepower
Palmerston—																						
	1916	\$ 6,102.25	151	32,672	171	161.22	7.7	Flat	282.57	51,029	63	603.26	5.5	5.5	Flat	1,225.68	1	1,225.68	1	5721.50	215	
	1917	2,506.76	171	33,104	177	111.22	7.7		2,780.86	50,847	71	603.24	5.3	5.3		1,401.26	2	1,401.26	2	5724.58	244	
	1918	2,563.63	177	52,780	213	211.27	6.2		2,729.69	54,590	75	617.2	6.1	6.1		2,161.21	4	2,161.21	4	8525.43	248	
	1919	3,253.16	234	102,555	234	361.53	4.2		3,344.29	90,508	75	1014.00	4.5	4.5		3,235.10	5	3,235.10	5	12825.27	292	
	1920	4,284.77	255	124,636	255	411.62	4.0		4,036.64	95,314	80	994.93	5.0	5.0		4,581.69	6	4,581.69	6	17126.79	341	
	1921	5,035.03	277	159,164	277	501.70	3.4		4,736.84	93,623	80	984.28	4.4	4.4		5,679.92	6	5,679.92	6	16534.42	363	
	1922	5,419.45	315	214,614	315	561.50	2.6		4,110.84	116,053	80	1333.83	3.2	3.2		6,432.56	7	6,432.56	7	19433.67	402	
	1923	5,671.62	316	239,785	316	631.43	2.3		3,681.80	114,253	77	1213.62	3.0	3.0		5,831.72	7	5,831.72	7	18232.04	400	
	1924	5,407.81							3,408.02													
Paris—																						
	1914	4,766.23	354	65,037	477	171.01	5.8	7+10	2,778.09	65,108	142	572.32	4.1	4.3	8+20	1,419.90	1	1,419.90	1	8,974.66	497	
	1915	5,071.54	477	87,239	552	219.6	4.6		4,063.03	100,259	150	532.11	3.9	3.9		6,328.33	4	6,328.33	4	8,974.66	631	
	1916	5,877.57	552	127,382	581	239.8	4.2		3,805.95	96,750	150	562.31	4.0	4.0		8,282.42	5	8,282.42	5	41621.22	706	
	1917	6,620.91	581	155,986	625	211.08	5.0		4,303.71	105,150	161	442.23	4.9	4.9		12,951.24	8	12,951.24	8	55623.29	747	
	1918	7,839.11	625	155,406	663	309.4	3.1		4,339.77	86,904	162	452.20	4.9	4.9		14,226.43	12	14,226.43	12	57924.57	795	
	1919	7,447.39	663	237,276	757	268.5	3.2		4,436.78	90,539	168	452.20	4.9	4.9		16,414.88	13	16,414.88	13	80520.39	843	
	1920	7,696.27	757	237,103	875	359.0	2.5		4,411.23	84,538	182	412.02	5.0	5.0		16,844.82	18	16,844.82	18	93018.11	952	
	1921	9,368.93	875	366,497	884	491.12	2.3		4,532.48	173,264	188	772.01	2.6	2.6		15,743.55	17	15,743.55	17	73921.30	1,081	
	1922	11,791.12	884	518,536	927	701.31	1.8		4,670.02	184,961	170	1002.24	2.2	2.2		15,858.96	16	15,858.96	16	71022.47	1,071	
	1923	14,594.85	927	781,218	961	811.44	1.8		5,202.93	231,434	173	1112.50	2.2	2.2		15,705.45	21	15,705.45	21	72621.63	1,116	
	1924	16,280.06	961	917,315					5,994.11	248,086	179	1172.84	2.4	2.4							1,161	
Parkhill—																						
	1920	1,530.39	120		146	171.74	10.3	10+52	1,106.09		58				10+25	110.15	1	110.15	1	10	179	
	1921	3,049.70	146	29,648					2,243.54	17,506	58	243.22	12.8			1,186.35	3	1,186.35	3	2940.91	207	

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1921	1,066.62	14,362	77	151.15	7.4	706.15	10,570	20	44 2.94	6.7	302.26	2	15 20.15	99
1922	1,283.04	17,448	75	191.41	7.3	790.79	16,773	28	58 2.35	4.7	222.29	2	15 14.82	105
1923	1,585.59	23,008	78	251.70	6.8	915.67	11,027	28	33 2.72	8.3	330.98	2	15 22.06	108
1924	1,707.29	24,023	80	251.80	7.2	875.11	10,097	28	30 2.60	8.6	682.26	3	42 16.24	111
Point Edward—														
1923	3,348.43	124,855	222	471.25	2.6	1,332.94	34,762	34	85 3.26	3.8	4,906.53	10	195 25.16	266
1924	3,705.98	136,447	250	481.31	2.7	1,286.84	30,840	39	70 2.90	4.1	9,367.70	10	515 18.19	299
Port Arthur—														
1913	81,830.66	2,409				*		500			8+25	55		2,464
1914	38,097.65	2,969				32,933.91		550				55		3,574
1915	32,048.37	2,800				28,662.58		550				50		3,900
1916	31,152.52	2,701				27,439.63		481				46		3,228
1917	33,358.31	2,783				28,233.05		503				42		3,328
1918	37,216.29	2,807				31,612.57		535				42		3,384
1919	41,584.37	2,633				33,390.02		625				58		3,316
1920	45,432.34	1,641,294	2,960			32,165.55		590				59		3,609
1921	49,880.56	2,049,606	3,088			31,067.82		619				64		3,771
1922	52,356.36	2,544,274	3,153			34,267.89		630				80		3,863
1923	55,526.15	3,265,548	3,281			36,892.19		664				79		3,862
1924	65,709.88	4,097,699	3,389			42,658.99		663				78		4,130
Port Colborne—														
1920	4,301.60	101,020	465			3,082.14		132			4	13		610
1921	8,220.47	164,365	579			5,125.80		151				17		747
1922	9,496.22	246,059	608			4,990.40		155				13		776
1923	11,719.01	422,793	695			5,524.34		175				14		884
1924	13,171.21	613,725	852			6,053.01		186				16		1,054
Port Credit—														
1913	1,963.22	93				*		21			None	2		116
1914	2,461.42	41,862	125					35				2		162
1915	1,975.29	36,484	141			587.11		33				3		177
1916	1,781.49	44,251	145			464.02		33				3		181
1917	1,822.36	42,378	162			452.84		33				3		198
1918	2,107.78	58,660	164			509.82		33				23		200
1919	2,459.05	78,097	182			669.12		39				3		224
1920	3,173.10	96,791	199			1,164.86		44				3		246
1921	3,878.10	130,797	221			1,479.06		42				6		269
1922	4,220.61	169,972	241			1,786.91		46				6		293
1923	5,294.45	255,936	270			1,781.95		55				8		333
1924	5,385.95	283,006	302			2,126.92		62				6		370

## STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service						Commercial light service						Power service				Total number of consumers		
		Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers		Average horsepower	Average cost per horsepower
<b>Port Dalhousie—</b>																				
	1913	\$ 3,742.54			238															241
	1914	3,656.01			240					*	10									253
	1915	3,608.70			250						10									252
	1916	2,868.05			330						23									370
	1917	3,249.37			330						32									370
	1918	3,224.98			366						29									405
	1919	3,620.82			338						32									380
	1920	4,055.23			360						34									403
	1921	5,134.11			373						28									408
	1922	6,376.33			411						33									452
	1923	7,401.61			516						29									555
	1924	9,897.31			582						30									624
<b>Port Dover—</b>																				
	1922	2,069.83			156						77									236
	1923	3,590.29			208						88									300
	1924	4,539.61			238						96									335
<b>Port McNicoll—</b>																				
	1915	415.03			60						26									86
	1916	618.82			66						21									88
	1917	829.39			78						21									100
	1918	878.50			82						19									102



1919	1,201.52	18,536	100	151.00	6.5	528.68	8,890	22	342.00	5.9	51.13	1	.....	243.70	.....	123
1920	1,514.24	22,640	103	181.22	6.7	566.00	9,560	22	362.14	5.9	87.40	1	.....	243.70	.....	126
1921	1,879.68	30,108	106	241.48	6.2	692.07	13,992	26	422.22	4.9	109.77	1	.....	336.59	.....	133
1922	2,024.69	30,862	109	241.58	6.5	964.67	14,820	30	462.87	6.3	98.90	1	.....	249.45	.....	140
1923	1,769.16	31,930	112	231.31	5.5	1,095.31	16,238	33	412.77	6.7	80.81	1	.....	326.94	.....	146
1924	1,989.67	39,711	120	281.43	5.1	744.38	15,253	30	401.94	4.9	71.55	1	.....	235.77	.....	151
<b>Port Perry—</b>																
1922	860.24	.....	192	.....	.....	509.11	.....	54	.....	.....	735.45	1	.....	.....	.....	247
1923	5,722.85	.....	.....	.....	.....	3,270.27	.....	.....	.....	.....	2,040.93	.....	.....	21	35.02	.....
1924	5,149.08	55,879	217	211.98	9.4	2,584.67	17,746	68	223.17	14.4	.....	8	.....	60	34.41	293
<b>Port Stanley—</b>																
1912	897.02	.....	122	.....	.....	1,106.63	.....	40	.....	.....	1,314.70	3	.....	.....	.....	165
1913	1,828.06	.....	182	.....	.....	1,771.70	.....	60	.....	.....	2,418.00	9	.....	.....	.....	251
1914	2,066.41	.....	229	.....	.....	1,753.60	.....	72	.....	.....	1,270.83	12	.....	.....	.....	313
1915	2,498.57	.....	274	.....	.....	1,736.42	.....	73	.....	.....	2,064.76	9	.....	.....	.....	356
1916	2,956.97	.....	308	.....	.....	1,551.37	.....	72	.....	.....	1,985.92	11	.....	.....	.....	391
1917	3,386.56	.....	323	.....	.....	1,714.56	.....	57	.....	.....	3,174.23	6	.....	.....	.....	396
1918	3,736.63	59,736	140	211.34	6.2	1,734.62	21,927	67	272.15	7.9	2,738.60	16	.....	80	34.23	223
1919	4,433.44	.....	388	.....	95	1,973.57	26,922	75	302.20	7.3	2,996.19	17	.....	77	38.91	480
1920	5,003.83	.....	439	.....	95	1,696.00	38,808	89	361.59	4.4	5,324.07	20	.....	161	33.07	548
1921	6,558.51	367,909	481	641.14	.....	1,608.99	72,080	111	541.21	.....	5,344.03	19	.....	174	30.71	611
1922	7,306.84	.....	508	.....	.....	1,881.49	.....	67	.....	.....	5,720.55	12	.....	190	30.11	587
1923	7,460.33	.....	518	.....	1.21	2,110.89	.....	60	.....	2.94	3,933.41	14	.....	144	27.31	592
1924	7,608.09	.....	534	.....	.....	2,057.60	.....	57	.....	.....	4,793.26	12	.....	144	33.28	603
<b>Prescott—</b>																
1914	4,868.75	.....	342	.....	.....	3,600.00	.....	122	.....	.....	1,099.27	10	.....	.....	.....	474
1915	4,058.14	67,130	369	16	95	3,033.62	62,647	145	391.89	4.8	3,431.45	11	.....	.....	.....	525
1916	4,186.96	63,304	380	15	93	3,611.95	71,794	133	452.16	5.0	4,141.90	22	.....	.....	.....	525
1917	4,865.40	79,202	381	17	1.06	3,999.55	88,386	134	552.49	4.5	5,010.65	14	.....	232	21.60	529
1918	4,783.96	79,573	414	161.00	6.0	3,663.18	87,224	134	542.27	4.2	5,595.29	14	.....	257	21.77	562
1919	5,354.77	96,876	524	191.05	5.5	3,556.77	69,093	126	462.35	5.1	4,946.97	18	.....	243	20.36	568
1920	5,952.58	113,550	456	211.09	5.2	4,043.40	81,938	136	502.48	4.9	5,206.91	21	.....	257	20.26	613
1921	7,851.66	122,369	466	211.40	6.4	4,730.49	89,896	133	562.96	5.3	5,721.94	18	.....	270	22.19	617
1922	8,954.07	152,011	470	271.59	5.9	5,196.38	103,430	136	634.23	5.0	6,481.29	21	.....	336	19.28	627
1923	8,617.09	176,463	473	311.51	4.9	4,947.78	111,852	147	632.80	4.4	6,360.59	20	.....	254	25.08	640
1924	6,819.17	219,600	502	371.16	3.1	4,048.82	134,030	144	772.33	3.0	6,239.03	22	.....	268	23.26	668

## STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service						Commercial light service						Power service				Total number of consumers			
		Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	kw-hrs.	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue		Number of consumers	Average horsepower	Average cost per horsepower
<b>Preston—</b>																					
	1912	4,234.68		341																	
	1913	5,477.10	83,852	526	16 1.05	6.5	9+20	5,237.99				131		61 3.18	5.2	9+20	15,478.14	21		492	
	1914	5,477.10	83,852	526	16 1.05	6.5	9+20	5,366.77			103,000	151		61 3.18	5.2	9+20	21,017.68	28		705	
	1915	6,520.39	108,257	629	14 90	6.0		5,011.15			106,675	165		56 2.64	4.7		21,975.26	29		823	
	1916	6,615.91	129,896	714	16 82	6.1		4,488.76			118,756	174		58 2.21	3.8		21,698.34	30		918	
	1917	7,341.15	186,361	785	21 82	3.9		4,779.76			155,325	182		72 2.24	3.1		22,624.37	34		1,001	
	1918	8,956.89	215,302	843	22 91	4.2		5,733.82			159,885	186		72 2.60	3.5		24,569.60	35		1,064	
	1919	9,090.16	254,288	871	24 88	3.5		4,981.29			158,257	190		70 2.20	3.1		23,016.09	37		1,098	
	1920	10,345.24	302,252	935	27 92	3.4		6,320.68			227,636	193		97 2.73	2.8		27,339.13	40		1,168	
	1921	11,667.41	411,997	1,010	34 96	2.8		7,902.05			287,866	193		124 3.41	2.7		29,895.21	41		1,244	
	1922	15,234.56	472,870	1,074	37 1.10	3.2		8,008.17			311,846	196		133 3.40	2.6		32,165.77	42		1,312	
	1923	19,038.45	803,177	1,104	60 1.42	2.4		9,203.81			365,412	203		153 3.85	2.5		38,677.75	53		1,420	
	1924	24,540.48	1,181,121	1,212	81 1.68	2.0		11,579.10			456,108	202		188 4.77	2.5		41,981.43	53		1,467	
	1925	28,958.51	1,434,929	1,295	95 1.92	2.0		14,326.44			603,530	205		246 5.85	2.4		47,734.22	47		1,547	
<b>Priceville—</b>																					
	1922	356.45		18				180.10				8								26	
	1923	416.54						195.03													
	1924	492.97	5,191	25	17 1.64	9.6		234.55			2,718	9	25 2.17	8.7						34	
<b>Princeton—</b>																					
	1915	440.42		30				81.57				15								45	
	1916	657.80	7,739	44	17 1.48	8.5		127.81			1,278	11	8	83 10.6			192.92			55	
	1917	789.51	8,412	46	16 1.46	9.4		178.43			1,290	12	9 1.24							58	
	1918	657.45	6,960	47	12 1.17	9.4		181.19			2,367	12	16 1.25	7.6						59	
	1919	845.12		48	1.47			229.56				12	1.60							60	
	1920	1,104.05		64	1.45			339.38				13	2.17							77	





## STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service						Commercial light service						Power service					
		Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	kw-hrs.	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	Total number of consumers
		\$	kw-hrs.		kw-hr.	\$	cts.	cts.	\$	kw-hrs.	kw-hr.	\$	cts.	cts.	\$			\$	
<b>Rodney</b>																			
1917	1917	587.46	.....	57	.....	91.10	12.0	None	665.84	41	15	1.78	11.5	None	.....	.....	.....	.....	98
1918	1918	794.65	6,522	63	9	1.12	10.1	None	911.63	44	46	182.04	11.4	None	.....	.....	47.35	28	107
1919	1919	1,050.66	10,423	78	11	1.21	9.9	None	1,224.65	46	53	202.16	10.9	None	1,657.98	2	55	27.40	126
1920	1920	1,516.38	15,389	104	12	1.21	8.9	None	1,373.38	53	56	212.30	10.7	None	1,506.77	2	51	29.99	159
1921	1921	1,849.15	20,809	120	14	1.28	8.9	None	1,548.45	60	60	261.89	7.2	None	1,427.43	2	69	19.47	178
1922	1922	1,897.70	26,252	131	17	1.26	7.3	None	1,362.47	60	60	361.92	5.2	None	1,343.34	4	72	26.84	195
1923	1923	2,005.79	31,109	148	17	1.12	6.4	None	1,373.87	60	65	351.75	5.0	None	1,933.14	4	93	24.77	212
1924	1924	1,971.73	41,597	160	22	1.07	4.9	None	1,321.17	65	65	203.3	1.1	None	2,313.33	4	.....	.....	229
<b>St. Catharines</b>																			
1914	1914	2,013.48	53,572	833	.....	.....	3.7	7	412.75	92	115	2.23	1.9	7	12,742.98	20	.....	.....	945
1915	1915	9,540.70	273,389	1,612	19	65	3.5	7	3,810.11	192	121	2.25	1.5	7	25,193.30	34	.....	.....	1,838
1916	1916	16,419.57	591,765	2,410	24	68	2.8	7	5,925.49	247	127	1.99	1.5	7	40,688.67	48	.....	.....	2,705
1917	1917	24,275.56	1,038,894	2,833	31	77	2.3	7	6,024.34	270	136	1.83	1.6	7	71,138.36	52	4,418	16.10	3,155
1918	1918	30,187.05	1,448,273	3,022	40	84	2.0	7	6,028.41	279	133	1.83	1.6	7	94,632.33	53	4,873	19.41	3,454
1919	1919	36,710.19	1,815,947	3,428	44	89	2.0	7	7,401.09	299	136	2.06	1.5	7	48,616.67	52	3,301	14.73	3,719
1920	1920	46,123.30	2,899,265	3,703	65	1.04	1.6	7	8,930.44	338	155	2.20	1.4	7	60,203.07	69	3,799	15.85	4,110
1921	1921	55,560.41	3,932,393	4,040	81	1.15	1.4	7	10,321.67	360	159	2.39	1.5	7	54,947.24	84	3,773	14.56	4,484
1922	1922	59,603.93	4,565,984	4,341	88	1.15	1.3	7	11,409.66	398	173	2.39	1.4	7	66,583.84	93	4,057	16.40	4,832
1923	1923	77,332.47	4,394,072	4,598	79	1.40	1.7	7	15,293.23	445	184	2.86	1.5	7	77,224.26	105	4,621	16.71	5,148
1924	1924	89,008.31	5,380,069	4,851	95	1.57	1.6	7	17,302.65	481	203	3.11	1.5	7	65,642.90	106	4,242	15.48	5,438



## STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service						Commercial light service						Power service					Total number of consumers	
		Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	kw-hrs.	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower		Average cost per horsepower
St. Thomas—	1912	7,596.01	.....	620	19	1.18	5.9	11	18,741.74	.....	300	72	4.26	5.9	11	14,761.30	60	.....	.....	980
	1913	11,125.50	187,000	951	19	1.18	5.9	.....	16,097.41	272,000	329	72	4.26	5.9	.....	36,550.26	70	.....	.....	1,350
	1914	13,221.00	277,539	1,499	19	90	4.8	.....	13,480.75	346,994	384	81	3.15	3.9	.....	44,247.13	92	.....	.....	1,975
	1915	16,517.37	460,103	1,903	23	81	3.6	.....	13,442.48	504,679	434	102	2.73	2.7	.....	44,780.45	101	.....	.....	2,438
	1916	20,210.52	629,102	2,241	25	81	3.2	.....	15,145.47	607,131	464	93	2.81	2.5	.....	46,698.91	107	.....	.....	2,812
	1917	22,620.72	759,512	2,524	27	79	3.0	.....	14,843.27	600,317	472	107	2.64	2.5	.....	44,977.52	112	2,349	19.15	3,108
	1918	25,561.20	877,011	2,654	28	82	2.9	.....	12,332.86	694,990	481	121	2.15	1.7	.....	53,973.48	112	2,546	21.19	3,247
	1919	29,904.22	1,001,693	3,073	27	81	2.9	.....	14,958.16	796,838	504	132	2.47	1.9	.....	54,035.16	112	2,754	19.62	3,689
	1920	39,060.45	1,486,606	3,485	36	93	2.6	.....	19,489.14	868,845	523	138	3.10	2.2	.....	53,682.89	112	3,167	16.96	4,120
	1921	41,410.99	1,749,059	3,355	43	1.03	2.4	.....	21,113.52	983,369	547	150	3.22	2.1	.....	50,755.91	110	3,300	15.38	4,012
	1922	48,664.67	2,312,688	3,744	54	1.15	2.1	.....	25,144.74	1,148,936	574	171	3.74	2.2	.....	58,344.66	116	3,578	16.31	4,434
Sandwich—(9 months)	1923	61,460.88	3,196,742	3,911	68	1.30	1.9	.....	27,924.54	1,379,900	593	193	3.92	2.0	.....	73,951.69	112	3,773	19.60	4,616
	1924	63,645.65	3,661,173	3,747	80	1.38	1.7	.....	31,726.62	1,546,218	603	215	4.42	2.1	.....	73,883.39	116	3,818	19.35	4,466
	1924	39,260.85	.....	1,596	.....	.....	.....	.....	6,909.99	.....	106	.....	.....	.....	.....	5,254.85	17	.....	.....	1,719
	1924	39,260.85	.....	1,596	.....	.....	.....	.....	6,909.99	.....	106	.....	.....	.....	.....	5,254.85	17	.....	.....	1,719
Sarnia—	1917	25,655.32	385,770	2,150	15	99	6.6	6	18,724.77	405,824	439	75	3.55	4.4	5—4	33,693.36	58	1,014	33.23	2,647
	1918	28,772.83	549,370	2,380	20	1.05	5.2	.....	19,935.11	494,635	445	93	3.75	4.0	.....	35,272.45	62	1,110	31.78	2,887
	1919	33,920.44	720,871	2,681	22	1.05	4.7	.....	22,668.63	534,075	492	91	3.84	4.2	.....	68,714.03	70	2,065	33.28	3,243
	1920	44,174.44	1,028,520	2,918	29	1.26	4.3	.....	28,041.43	566,212	477	98	4.90	5.0	.....	100,632.53	65	2,687	37.45	3,460
	1921	51,857.64	1,473,021	3,591	34	1.20	3.5	.....	29,269.89	841,088	546	127	4.47	3.5	.....	90,166.93	79	2,816	22.02	4,216
	1922	57,975.10	1,903,231	3,928	42	1.29	3.0	.....	24,663.65	949,077	565	143	3.54	2.5	.....	92,054.18	86	2,950	31.20	4,579
	1923	69,562.83	2,591,212	3,923	55	1.47	2.6	.....	31,650.47	1,071,813	558	160	4.72	2.9	.....	99,326.63	79	3,024	32.84	4,560
	1924	74,902.85	2,868,366	4,176	59	1.54	2.6	.....	34,052.52	1,239,824	610	177	4.86	2.7	.....	99,656.44	78	2,935	33.95	4,864



## Scarboro Twp.—

1919	58,961	428	12	.....	.....	4,054	9	30	.....	.....	None	.....	1	.....	.....	438
1920	144,202	652	18	.....	.....	3,374	8	35	.....	.....	.....	.....	3	.....	59 52.26	663
1921	13,932.01	947	27	1.23	4.5	18,096	15	100	5.24	5.2	.....	.....	8	.....	119 32.94	960
1922	20,438.77	1,363	21	1.13	5.4	61,845	58	89	5.64	6.3	.....	.....	12	.....	175 36.80	1,433
1923	40,972.43	2,552	26	1.33	5.0	3,925.46	172	48	2.50	5.2	.....	.....	25	.....	295 36.66	2,749
1924	50,986.90	2,549	61	1.66	2.7	9,124.97	190	108	4.20	3.9	.....	.....	29	.....	406 30.77	2,768

## Seaforth—

1913	2,124.18	178	.....	.....	8.6	2,876.47	105	.....	.....	8.3	8+25	.....	10	.....	.....	293
1914	2,467.36	211	16	1.06	6.8	2,581.30	112	35	1.98	5.6	.....	.....	10	.....	.....	333
1915	2,593.70	238	16	.....	6.0	48,840	111	37	2.03	5.6	.....	.....	11	.....	.....	360
1916	3,045.65	280	17	.....	5.9	2,724.84	110	43	2.22	5.2	.....	.....	12	.....	.....	402
1917	3,437.49	298	17	.....	5.8	2,941.03	112	37	2.16	5.8	.....	.....	13	.....	.....	423
1918	3,675.33	311	18	.....	5.6	2,872.71	108	38	2.17	5.7	.....	.....	12	.....	401 37.72	431
1919	4,209.20	326	21	1.08	5.2	3,460.97	119	43	2.42	5.6	.....	.....	13	.....	573 36.86	455
1920	4,606.78	400	20	.....	4.8	79,380	117	56	2.68	4.8	.....	.....	13	.....	360 27.35	530
1921	5,870.40	447	26	1.09	4.2	3,610.84	124	60	2.43	4.0	.....	.....	13	.....	407 24.55	584
1922	6,631.66	479	32	1.19	3.7	3,567.85	115	64	2.48	3.9	.....	.....	11	.....	354 24.94	606
1923	7,854.34	504	41	1.29	3.1	3,879.71	110	84	2.93	3.4	.....	.....	12	.....	261 25.37	626
1924	8,574.95	535	47	1.37	2.9	4,448.60	118	85	3.25	3.8	.....	.....	12	.....	255 28.21	665

## Shelburne—

1917	1,625.28	133	18	1.02	5.7	1,362.06	74	27	1.53	5.7	10	.....	4	.....	28 22.15	210
1918	1,749.09	142	19	1.06	5.5	1,416.45	76	28	1.57	5.4	.....	.....	5	.....	102 24.16	223
1919	2,046.30	170	20	1.00	5.0	1,645.38	76	35	1.80	5.1	.....	.....	3	.....	107 24.36	249
1920	2,616.47	182	19	1.18	6.1	2,084.51	81	35	2.14	6.1	.....	.....	9	.....	173 23.62	272
1921	3,754.83	206	24	1.52	6.2	2,862.25	80	51	2.98	5.9	.....	.....	7	.....	181 24.64	293
1922	4,441.32	221	27	1.74	6.4	2,829.00	78	49	2.98	6.1	.....	.....	9	.....	152 22.57	308
1923	4,535.60	234	24	1.61	6.6	3,545.17	86	48	3.43	7.1	.....	.....	8	.....	144 25.54	328
1924	4,331.44	242	26	1.52	5.8	3,398.49	89	50	3.19	6.4	.....	.....	11	.....	183 23.16	342

## Simcoe—

1915	5,227	35	.....	.....	6.7	1,386.89	61	.....	.....	5.1	None	.....	8	.....	.....	153
1916	1,857.61	57	.....	.....	6.5	2,292.28	84	53	2.63	5.0	.....	.....	12	.....	.....	198
1917	1,346.19	79	31	1.65	5.3	3,054.71	103	64	2.74	4.3	.....	.....	16	.....	89 20.45	.....
1918	1,544.94	103	27	1.41	5.1	75,588	111	59	2.44	4.1	.....	.....	16	.....	97 20.75	230
1919	2,237.23	134	25	1.40	5.5	4,431.49	126	62	2.93	4.7	.....	.....	80	.....	134 20.65	278
1920	2,960.86	176	30	1.40	4.6	5,036.58	136	80	3.09	3.8	.....	.....	20	.....	155 18.43	332
1921	3,446.47	222	36	1.28	3.6	4,967.07	154	92	2.69	2.9	.....	.....	21	.....	232 17.80	397
1922	4,194.50	277	54	1.40	2.6	5,631.93	181	108	2.81	2.6	.....	.....	24	.....	314 19.62	482
1923	4,973.09	339	50	1.22	2.4	6,398.76	195	120	2.73	2.3	.....	.....	24	.....	335 25.17	558
1924	6,668.31	454	60	1.40	2.1	8,184.06	208	161	3.38	2.1	.....	.....	26	.....	377 26.91	688

## STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service						Commercial light service						Power service				Total number of consumers		
		Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers		Average horsepower	Average cost per horsepower
<b>Smiths Falls—</b>																				
	1919	12,798.23	303,116	1,017	25	1.05	4.2	8	\$ 8,267.12	216,517	226	80	3.05	3.8	8	\$ 12,127.54	28	438	27.69	1,271
	1920	19,399.20	.....	1,121	.....	.....	.....	.....	11,655.03	.....	240	.....	.....	.....	.....	22,392.75	31	668	33.50	1,394
	1921	24,285.20	448,540	1,162	32	1.74	5.4	.....	12,264.33	244,781	232	88	4.41	5.2	.....	25,304.04	37	795	31.83	1,431
	1922	24,402.79	513,494	1,294	35	1.66	4.7	.....	14,260.12	228,143	245	78	4.99	6.2	.....	25,074.49	36	787	31.86	1,575
	1923	27,991.85	611,553	1,323	38	1.76	4.5	.....	13,961.93	284,213	247	95	4.71	4.9	.....	27,656.52	36	833	33.32	1,606
	1924	28,677.50	665,440	1,393	41	1.76	4.3	.....	14,495.01	284,211	247	96	4.89	5.1	.....	23,393.41	40	742	31.54	1,680
<b>Springfield—</b>																				
	1918	738.06	7,332	40	.....	.....	9.6	None	526.02	6,161	18	.....	.....	.....	None	650.34	2	25	.....	60
	1919	900.59	9,413	47	17	1.60	8.9	.....	635.08	8,595	21	34	2.52	7.4	.....	545.33	2	28	19.48	70
	1920	961.07	10,813	50	18	1.60	8.9	.....	697.17	8,281	21	33	2.75	8.4	.....	648.72	2	28	23.17	73
	1921	1,110.81	13,368	53	21	1.75	8.3	.....	574.12	4,900	22	19	2.20	11.6	.....	528.69	2	27	19.58	77
	1922	1,216.56	15,720	64	23	1.75	7.7	.....	589.43	5,709	24	21	2.14	10.3	.....	701.33	3	33	21.25	91
	1923	1,389.91	17,389	70	20	1.78	7.9	.....	651.05	6,116	25	20	2.17	10.6	.....	666.82	2	32	20.86	97
	1924	1,398.55	21,275	74	24	1.62	6.7	.....	724.34	9,767	23	34	2.51	7.4	.....	754.08	2	32	23.56	99
<b>Stamford Twp.—</b>																				
	1920	6,951.53	.....	673	.....	.....	.....	None	.....	.....	27	.....	.....	.....	None	7,276.54	11	.....	.....	711
	1921	10,340.84	.....	770	.....	.....	.....	.....	.....	.....	20	.....	.....	.....	.....	6,937.46	9	.....	.....	799
	1922	15,246.07	774,352	751	82	1.67	2.0	.....	365.04	1,254	16	.....	.....	.....	.....	11,241.10	14	445	25.26	112
	1923	18,250.90	847,910	856	82	1.77	2.1	.....	1,022.41	15,414	12	107	7.10	6.6	.....	10,171.53	11	431	23.59	879
	1924	21,474.11	1,018,966	869	100	2.07	2.0	.....	1,548.12	33,111	15	197	9.21	4.7	.....	10,736.23	16	533	20.14	900





## STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Domestic service						Commercial light service						Power service						
	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	Total number of consumers
<b>Sunderland—</b>																			
1915	794.83	.....	57	11	1.06	9.8	12.5	939.85	.....	36	45	1.92	9.0	12.5	211.86	1	.....	.....	93
1916	752.64	7,714	61	11	1.06	9.8	.....	840.22	9,644	37	45	1.92	9.0	.....	211.86	1	.....	.....	99
1917	858.64	10,369	58	15	1.29	8.3	.....	745.91	10,108	27	26	1.94	7.4	.....	731.14	2	34	21.50	87
1918	988.01	11,631	65	15	1.33	8.4	.....	735.19	7,867	31	22	2.11	9.3	.....	825.04	1	30	27.50	97
1919	1,123.51	14,103	71	17	1.32	8.0	.....	905.32	10,497	32	24	2.36	9.8	.....	1,001.01	1	30	33.37	104
1920	1,580.01	17,349	79	18	1.66	9.1	.....	1,060.24	10,876	34	27	2.60	9.7	.....	790.48	1	30	26.35	114
1921	1,851.55	16,233	79	17	1.95	11.4	.....	1,398.04	9,850	35	23	3.33	14.2	.....	814.60	2	30	27.15	116
1922	1,858.95	16,376	80	17	1.94	11.4	.....	1,523.73	14,023	36	34	3.63	10.9	.....	755.72	2	35	22.90	118
1923	1,879.48	20,757	89	19	1.75	9.0	.....	1,441.09	12,508	39	26	3.07	11.5	.....	804.86	2	36	22.35	130
1924	3,009.10	27,865	96	25	2.70	10.8	.....	1,405.48	16,484	37	36	3.08	8.5	.....	1,039.56	2	40	25.80	135
<b>Sutton—</b>																			
1924	3,621.98	37,384	232	13	1.30	10.0	.....	940.37	15,277	44	29	1.78	6.2	.....	424.12	1	12	35.34	277
<b>Tara—</b>																			
1918	428.00	.....	45	.....	.....	.....	None	392.66	.....	34	.....	.....	.....	None	352.49	1	.....	.....	80
1919	601.28	9,807	59	14	85	6.1	.....	694.94	11,526	38	24	1.52	6.0	.....	519.73	3	27	19.24	100
1920	1,093.36	16,329	71	19	1.28	6.7	.....	1,047.54	13,127	42	26	2.08	8.0	.....	950.40	5	46	20.66	118
1921	1,824.49	22,922	81	24	2.54	7.9	.....	1,787.89	15,682	39	34	3.82	11.4	.....	1,134.69	6	.....	.....	126
1922	2,226.18	.....	84	.....	.....	.....	.....	1,977.69	.....	37	.....	.....	.....	.....	1,120.91	5	32	35.03	126
1923	2,074.95	.....	.....	.....	.....	.....	.....	1,573.28	.....	.....	.....	.....	.....	.....	1,102.58	4	39	28.27	.....
1924	2,315.21	23,011	94	20	2.05	10.2	.....	1,805.31	16,808	37	38	4.07	10.7	.....	788.84	4	33	23.84	135
<b>Tavistock—</b>																			
1917	1,155.03	.....	80	.....	.....	.....	10	1,396.92	.....	64	.....	.....	.....	10	1,915.65	2	.....	.....	146
1918	1,258.12	13,089	114	10	92	9.6	.....	1,014.49	11,047	58	16	1.46	9.2	.....	10,303.82	3	284	36.29	175

	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980	2981	2982	2983	2984	2985	2986	2987	2988	2989	2990	2991	2992	2993	2994	2995	2996	2997	2998	2999	3000	3001	3002	3003	3004	3005	3006	3007	3008	3009	3010	3011	3012	3013	3014	3015	3016	3017	3018	3019	3020	3021	3022	3023	3024	3025	3026	3027	3028	3029	3030	3031	3032	3033	3034	3035	3036	3037	3038	3039	3040	3041	3042	3043	3044	3045	3046	3047	3048	3049	3050	3051	3052	3053	3054	3055	3056	3057	3058	3059	3060	3061	3062	3063	3064	3065	3066	3067	3068	3069	3070	3071	3072	3073	3074	3075	3076	3077	3078	3079	3080	3081	3082	3083	3084	3085	3086	3087	3088	3089	3090	3091	3092	3093	3094	3095	3096	3097	3098	3099	3100	3101	3102	3103	3104	3105	3106	3107	3108	3109	3110	3111	3112	3113	3114	3115	3116	3117	3118	3119	3120	3121	3122	3123	3124	3125	3126	3127	3128	3129	3130	3131	3132	3133	3134	3135	3136	3137	3138	3139	3140	3141	3142	3143	3144	3145	3146	3147	3148	3149	3150	3151	3152	3153	3154	3155	3156	3157	3158	3159	3160	3161	3162	3163	3164	3165	3166	3167	3168	3169	3170	3171	3172	3173	3174	3175	3176	3177	3178	3179	3180	3181	3182	3183	3184	3185	3186	3187	3188	3189	3190	3191	3192	3193	3194	3195	3196	3197	3198	3199	3200	3201	3202	3203	3204	3205	3206	3207	3208	3209	3210	3211	3212	3213	3214	3215	3216	3217	3218	3219	3220	3221	3222	3223	3224	3225	3226	3227	3228	3229	3230	3231	3232	3233	3234	3235	3236	3237	3238	3239	3240	3241	3242	3243	3244	3245	3246	3247	3248	3249	3250	3251	3252	3253	3254	3255	3256	3257	3258	3259	3260	3261	3262	3263	3264	3265	3266	3267	3268	3269	3270	3271	3272	3273	3274	3275	3276	3277	3278	32
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## STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service						Commercial light service						Power service				Total number of consumers		
		Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers		Average horsepower	Average cost per horsepower
<b>Thorndale—</b>																				
	1914	446.27	2,787	34	...	...	7.8	None	...	2,989	18	...	...	7.8	None	329.27	1	...	...	53
	1915	299.37	2,816	32	7	76	10.6	...	374.09	3,653	20	161.64	10.2	...	...	542.53	1	...	...	53
	1916	328.67	3,597	33	9	84	9.1	...	403.01	3,709	21	161.64	10.9	...	...	459.79	1	...	...	55
	1917	382.95	4,654	37	11	91	8.2	...	413.03	4,642	22	171.56	8.9	...	...	475.53	1	24	19.81	60
	1918	434.89	5,754	41	12	92	7.5	...	404.27	5,302	23	191.49	7.6	...	...	2,114.60	2	64	33.04	66
	1919	539.94	9,211	43	12	1.05	8.7	...	560.55	6,015	27	191.73	9.3	...	...	2,337.09	2	77	30.35	72
	1920	716.05	7,115	46	13	1.30	10.0	...	715.49	9,269	27	292.21	7.7	...	...	3,455.34	2	86	40.18	75
	1921	989.21	10,666	62	16	1.33	9.3	...	743.97	8,748	17	433.65	8.5	...	...	2,102.43	2	61	34.47	81
	1922	1,056.69	11,787	55	17	1.52	8.8	...	668.49	8,098	25	262.65	8.3	...	...	1,838.18	1	54	34.04	81
	1923	1,198.22	15,229	54	25	1.85	7.9	...	711.94	10,071	26	322.28	7.0	...	...	1,429.26	1	36	39.70	81
	1924	1,239.34	22,756	65	32	1.73	5.5	...	737.35	7,262	21	332.61	7.8	...	...	1,319.48	1	33	29.98	87
<b>Thornton—</b>																				
	1919	390.38	...	31	...	...	...	None	158.36	...	10	...	...	...	None	...	...	...	...	41
	1920	564.08	...	33	...	...	...	...	198.24	...	10	...	...	...	...	...	...	...	...	43
	1921	688.24	6,683	34	16	1.69	10.3	...	306.20	3,250	11	242.32	9.4	...	...	...	...	...	...	55
	1922	786.81	7,816	38	18	1.82	10.1	...	330.93	2,431	10	202.75	13.2	...	...	...	...	...	...	48
	1923	879.09	7,916	38	17	1.92	11.1	...	259.09	2,031	10	162.15	12.7	...	...	...	...	...	...	...
	1924	808.49	9,159	39	20	1.73	8.6	...	296.01	3,460	11	262.24	8.6	...	...	...	...	...	...	50
<b>Thorold—</b>																				
	1922	12,100.76	558,497	985	47	1.02	2.2	...	4,986.80	234,313	172	1132.41	2.1	...	...	2,590.78	5	89	29.51	1,162
	1923	13,781.50	720,435	1,026	58	1.11	1.9	...	5,453.59	344,467	178	1612.55	1.6	...	...	3,476.54	9	144	24.14	1,213
	1924	15,833.36	699,907	1,086	55	1.25	2.3	...	5,702.15	345,837	181	1612.65	1.6	...	...	3,512.53	8	149	23.58	1,275











## STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service						Commercial light service						Power service				Total number of consumers		
		Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers		Average horsepower	Average cost per horsepower
Wardsville—																				
	1922	794.73	5,541	41	111.62	14.3			382.33	3,052	15	17.2	12.12	12.5						56
	1923	803.19	5,346	43	101.55	15.0			418.46	3,699	16	19.2	17.11	11.3						59
	1924	887.66	8,173	43	161.72	10.8			447.16	4,889	15	27.2	4.8	9.2						58
Warkworth—																				
	1924	2,053.79	22,722	58	33.2	9.5	8.9		1,226.00	8,349	27	26.3	7.8	14.5						85
Waterdown—																				
	1912	774.40		41				None	340.00		20					614.42	2			63
	1913	1,003.09		70					361.20		34					917.65	2			106
	1914	1,054.13	13,360	71	161.25	7.9			535.83	8,321	34	20.1	3.1	6.5		1,011.38	5			110
	1915	1,202.41	18,017	84	191.30	6.7			567.65	8,493	30	23.1	4.8	6.7		1,207.80	7			121
	1916	1,218.86	18,622	93	181.15	6.5			575.10	8,944	32	24.1	5.5	6.4		1,149.78	6			131
	1917	1,317.48	18,025	101	151.13	7.3			529.70	7,887	31	21.1	4.3	6.7		1,232.89	4			136
	1918	1,450.47	26,308	105	211.15	5.5			529.53	9,768	33	25.1	3.4	5.4		1,163.48	4			142
	1919	1,828.47	24,000	127	161.20	7.6			595.30	8,400	33	21.1	5.0	7.1		1,401.58	3			163
	1920	2,167.44	30,150	134	191.38	7.1			609.00	7,750	31	20.1	5.9	8.0		1,487.72	3			168
	1921	2,353.26	47,413	154	261.24	5.0			664.53	15,236	36	35.1	5.4	4.4		1,377.87	4			194
	1922	2,488.49	61,548	148	341.37	4.0			613.00	11,458	31	31.1	6.5	5.3		1,075.13	3			182
	1923	2,585.03	59,867	170	291.27	4.1			657.78	16,050	33	40.1	6.8	4.0		1,329.07	4			207
	1924	2,927.21	78,725	185	371.37	3.7			722.74	17,176	35	42.1	7.7	4.2		1,437.47	4			224
Waterford—																				
	1915	685.22		75				10	546.08		40									115
	1916	1,112.28	14,220	99	141.08	7.8			796.50	9,827	42	20.1	6.2	8.1		1,007.74	2			143
	1917	1,369.35	17,445	100	151.14	7.8			807.28	11,938	42	24.1	2.1	6.8		4,030.85	1			143







1922	3,092.49	40,654	176	201.51	7.6	1,340.74	17,102	53	29.2 23	7.8	Flat	1,842.93	5	5831.77	234
1923	3,089.36	50,118	190	211.35	6.1	1,948.27	28,567	42	56.3 86	6.8		2,300.79	5	7032.00	237
1924	3,742.91	56,903	212	241.55	6.5	1,627.13	27,287	48	50.3 01	6.0		2,422.66	7	8229.54	267
<b>West Lorne—</b>															
1917	578.98		54			602.00		40							94
1918	759.87	6,884	66	9	11.0	649.68	7,917	44	15.1 23	8.2		59.38	1		111
1919	991.90		66			873.46		44				360.44	1	8 45.05	111
1920	1,286.61					1,253.45						4,838.27			
1921	1,630.54	21,954	110	17.1 23	7.5	1,356.84	21,503	54	33.2 09	6.3		6,008.65	3	157 38.27	167
1922	1,707.26	23,500	120	17.1 24	7.3	1,469.24	22,700	54	35.2 27	6.5		6,413.57	3	181 35.50	177
1923	1,828.90	26,729	143	15.1 06	6.8	1,662.45	27,165	55	41.2 25	6.1		7,192.16	3	207 32.86	202
1924	1,903.28	37,734	152	21.1 07	5.1	1,636.27	39,567	54	61.2 53	4.2		7,900.64	4	221 35.74	210
<b>Weston—</b>															
1912	3,979.81		225			750.00		15			7.2 +	1,674.28	4		344
1913	4,117.20		360			1,475.74		35			22.5	6,166.97	6		400
1914	3,741.84	79,766	352	17 80	4.7	1,599.97	26,774	78	40.2 38	6.0		4,958.59	10		440
1915	4,407.36	96,186	441	21 93	4.6	1,305.90	27,564	90	27.1 30	4.7		4,798.33	9		540
1916	5,477.65	135,272	475	25 1 00	4.0	1,407.31	31,898	88	30.1 13	3.8		5,202.84	11		574
1917	5,942.00	155,303	542	24 97	3.8	1,467.63	35,800	83	35.1 44	4.1		16,420.90	12	850 19.32	637
1918	6,288.15	201,658	541	31 97	3.1	1,403.92	45,480	94	43.1 32	3.1		19,578.73	11	882 22.19	646
1919	7,453.63	310,258	667	39 93	2.4	1,819.82	65,319	108	50.1 40	2.8		20,861.85	17	936 22.29	792
1920	9,047.65	363,877	745	42.1 06	2.2	2,125.38	66,279	104	52.1 67	3.2		25,110.01	13	927 27.00	862
1921	10,086.61	626,817	1,030	51 82	1.6	2,183.96	76,122	120	53.1 51	2.9		19,057.66	14	999 19.08	1,164
1922	14,808.44	724,340	1,150	55.1 13	2.0	2,484.85	95,766	130	64.1 66	2.6		27,737.15	16	1,276 21.72	1,296
1923	21,369.90	1,104,178	1,048	87.1 70	1.9	3,375.89	135,817	135	83.2 08	2.4		36,552.82	17	1,593 22.94	1,601
1924	19,971.05	1,255,554	1,474	83.1 32	1.6	3,566.53	163,575	157	93.2 04	2.2		40,352.62	20	1,616 24.97	1,651
<b>Wheatley—(9 months)</b>															
1924	2,083.13		120			2,078.71		53				691.12	1		174
<b>Williamsburg—</b>															
1915	403.72		44			139.26		9			None		1		54
1916	568.66	7,392	41	14.1 11	7.7	224.29	3,934	9	36.2 08	5.7		285.73	1		51
1917	551.07	7,003	42	16.1 09	7.9	280.09	3,347	10	30.2 33	8.4		256.38	1	9 28.48	53
1918	547.71	6,798	44	13.1 04	8.1	313.21	3,915	11	30.2 37	8.0		205.51	1	15 13.70	56
1919	785.76	7,334	42	15.1 49	10.0	312.45	5,981	14	36.1 86	5.2		334.03	2	18 18.50	58
1920	739.05	7,842	41	16.1 54	9.7	253.05	4,506	7	41.1 75	5.5		386.63	2	22 17.57	50
1921	926.67	11,363	47	19.1 58	8.3	439.04	3,722	12	33.3 05	9.2		230.38	1	9 25.60	80
1922	1,091.67	10,985	46	20.1 74	8.7	541.37	5,674	14	36.3 47	9.6		257.92	1	14 18.42	61
1923	893.22	11,636	45	21.1 65	7.6	530.32	7,254	16	40.2 81	7.0		217.32	1	16 13.58	62
1924	899.53	13,565	45	25.1 67	6.7	663.81	9,148	16	48.3 46	7.2		222.46	1	17 13.40	62

STATEMENT "D"—Continued

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service						Commercial light service						Power service							
		Revenue	Consumption	Numbers of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Consumption	Number of consumers	Av'g monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	Number of consumers	Average horsepower	Average cost per horsepower	Total number of consumers	
Winchester	1914	\$ 1,672.09	.....	103	21 1.27	5.9	.....	15	1,300.00	.....	50	50 2.23	7.6	.....	.....	.....	.....	.....	.....	.....	153
	1915	1,698.40	28,610	120	21 1.27	5.9	.....	.....	1,336.85	17,550	30	50 2.23	7.6	.....	.....	.....	.....	.....	.....	171	
	1916	1,698.40	28,610	120	21 1.27	5.9	.....	.....	1,336.85	17,550	30	50 2.23	7.6	.....	.....	.....	.....	.....	.....	182	
	1917	2,330.67	36,311	162	20 1.31	6.4	.....	.....	1,546.53	21,999	46	38 2.37	6.2	.....	.....	.....	.....	.....	.....	210	
	1918	2,595.85	44,875	174	21 1.24	5.8	.....	.....	1,493.85	20,577	47	36 2.65	7.3	.....	.....	.....	.....	.....	.....	222	
	1919	3,086.06	62,282	182	29 1.41	4.9	.....	.....	1,690.89	26,445	47	47 2.98	6.4	.....	.....	.....	.....	.....	.....	231	
	1920	3,808.56	83,871	192	36 1.61	4.5	.....	.....	2,242.15	38,060	47	66 4.00	5.8	.....	.....	.....	.....	.....	.....	241	
	1921	4,987.06	80,842	212	32 1.96	6.2	.....	.....	2,925.86	29,833	49	51 4.97	9.8	.....	.....	.....	.....	.....	.....	263	
	1922	5,754.06	77,677	230	29 2.17	7.4	.....	.....	2,731.95	31,810	52	53 4.55	8.6	.....	.....	.....	.....	.....	.....	284	
	1923	6,124.53	89,708	253	29 2.01	6.8	.....	.....	2,558.82	33,050	58	61 3.67	7.7	.....	.....	.....	.....	.....	.....	313	
	1924	4,703.97	116,772	243	39 1.58	4.1	.....	.....	2,078.22	38,855	57	57 3.04	5.3	.....	.....	.....	.....	.....	.....	303	
Windsor	1914	3,143.41	.....	1,802	.....	.....	.....	12	1,107.38	.....	257	.....	.....	.....	.....	.....	.....	.....	.....	2,069	
	1915	23,161.57	468,386	2,519	18 89	4.9	.....	.....	12,009.99	309,757	377	82 3.16	3.9	.....	.....	.....	.....	.....	.....	2,939	
	1916	35,565.79	726,442	3,180	21 1.04	4.9	.....	.....	16,831.60	465,683	439	95 3.44	3.6	.....	.....	.....	.....	.....	.....	3,685	
	1917	48,913.80	1,087,029	3,882	26 1.15	4.5	.....	.....	21,257.15	590,977	471	108 3.89	3.6	.....	.....	.....	.....	.....	.....	4,450	
	1918	60,080.51	1,422,096	4,415	27 1.13	4.2	.....	.....	21,751.80	626,579	484	108 3.75	3.5	.....	.....	.....	.....	.....	.....	5,000	
	1919	78,038.66	1,990,644	5,383	31 1.21	3.9	.....	.....	27,032.01	893,920	584	128 3.86	3.0	.....	.....	.....	.....	.....	.....	6,103	
	1920	144,209.01	4,496,116	8,700	53 1.71	3.2	.....	.....	75,244.64	2,340,661	1,220	216 7.20	3.2	.....	.....	.....	.....	.....	.....	10,193	
	1921	181,822.04	6,000,528	9,731	51 1.56	3.0	.....	.....	99,612.26	3,235,758	1,448	186 5.73	3.1	.....	.....	.....	.....	.....	.....	11,520	
	1922	210,050.86	8,197,159	10,450	68 1.73	2.6	.....	.....	103,421.01	3,799,633	1,472	217 5.90	2.7	.....	.....	.....	.....	.....	.....	12,243	
	1923	358,709.20	13,627,976	12,021	94 2.48	2.6	.....	.....	123,631.38	5,229,797	1,441	303 7.14	2.3	.....	.....	.....	.....	.....	.....	13,773	
	1924	323,851.35	17,494,259	11,263	125 2.32	1.9	.....	.....	141,192.25	6,007,751	1,473	341 8.07	2.4	.....	.....	.....	.....	.....	.....	13,069	





## STATEMENT "D"—Concluded

Comparative Statistics Relating to the Supply of Electrical Energy for Domestic Service, for Commercial Light Service and for Power Service in Hydro Municipalities for Each Year Since the Inauguration of Service up to the Year 1924. Showing Growth in Number of Consumers, in Revenue and in Consumption, and Reductions in Net Cost per Kilowatt-Hour

Municipality	Year	Domestic service						Commercial light service						Power service				Total number of consumers		
		Revenue	Consumption	Number of consumers	Avg monthly consumption	Average monthly bill	Net cost per kw-hr.	Net cost prior to Hydro	Revenue	kw-hrs.	Number of consumers	kw-hr.	\$	c.	cts.	Revenue	Number of consumers		Average horsepower	Average cost per horsepower
Wyoming—																				
	1917	658.99	9,309	56	12	98	7.1	None	581.47	8,065	34	20	1.43	7.1	None	.....	.....	.....	.....	90
	1918	718.62	10,125	57	15	1.06	7.0	None	593.40	8,273	32	20	1.49	7.1	None	.....	.....	.....	.....	89
	1919	777.48	10,951	68	13	95	7.3	.....	637.26	7,541	33	19	1.61	8.4	.....	.....	.....	.....	.....	102
	1920	1,116.01	13,140	78	15	1.27	8.5	.....	953.51	10,000	20	31	2.91	9.5	.....	.....	.....	.....	.....	122
	1921	1,550.65	16,511	86	17	1.57	9.2	.....	1,226.83	13,928	39	30	2.62	8.8	.....	.....	.....	.....	.....	129
	1922	1,696.84	21,139	94	20	1.57	7.8	.....	1,218.89	19,245	39	41	2.61	6.3	.....	.....	.....	.....	.....	135
	1923	1,787.90	27,588	97	24	1.56	6.5	.....	1,104.22	19,357	41	39	2.38	6.0	.....	.....	.....	.....	.....	140
	1924	1,656.80	19,850	94	17	1.45	8.5	.....	1,084.82	20,784	48	39	2.03	5.2	.....	.....	.....	.....	.....	144
Zurich—																				
	1918	810.66	5,785	49	8	1.17	14.0	Flat	873.86	5,623	33	12	1.89	15.5	Flat	3,084.22	1	50	61.68	83
	1919	878.22	7,441	52	12	1.41	11.8	.....	766.98	5,546	36	13	1.78	13.8	.....	2,710.24	2	53	51.14	90
	1920	881.70	8,503	55	13	1.36	10.4	.....	991.52	7,701	39	24	3.18	12.9	.....	2,773.80	2	59	47.00	96
	1921	954.55	9,612	59	14	1.35	9.9	.....	1,009.12	9,847	39	21	2.16	10.2	.....	2,343.29	2	54	43.39	100
	1922	1,062.95	11,802	65	15	1.43	9.0	.....	1,132.66	11,282	42	24	2.36	10.0	.....	2,172.10	3	57	38.11	110
	1923	1,327.15	15,640	75	17	1.49	8.4	.....	1,125.33	13,504	43	26	2.18	8.3	.....	2,123.87	4	58	36.62	122
	1924	1,470.91	23,880	86	24	1.51	6.3	.....	1,034.53	14,597	42	29	2.05	7.1	.....	2,295.35	4	66	34.78	132

## STATEMENT "E"

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing  
Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
Acton.....	1,649	{ 114 61 2	80 c.p. 100 watt 200 "	s m m 12.00 12.00 12.00	{ 2,120.00	1.28
Agincourt.....		43	100 "	m 16.00	690.00	**
Ailsa Craig.....	514	54	100 "	m 12.00	639.00	1.24
Alexandria.....	2,255	128	100 "	m 22.00	2,819.66	1.25
Alliston.....	1,283	{ 101 13	150 c.p. 100 watt	s m 18.00 18.00	{ 2,040.00	1.59
Alvinston.....	657	86	100 "	m 20.00	1,720.00	2.62
Ancaster Twp.....		70	100 "	m 12.00	864.00	**
Apple Hill.....		23	100 "	m 25.00	575.00	**
Arthur.....	1,062	{ 75 4	100 " 200 "	m m 25.00 38.00	{ 1,899.38	1.79
Aylmer.....	2,222	{ 145 13	100 " 300 c.p.	m s 15.00 33.00	{ 2,604.00	1.17
Ayr.....	811	78	100 watt	m 14.00	1,092.00	1.35
Baden.....		61	100 "	m 9.00	549.00	**
Barrie.....	7,075	511	150 c.p.	s 8.00	4,088.00	0.58
Barton Twp.....		{ 179 23	100 " 200 "	m m 12.00 24.00	{ 1,267.00	a
Beachville.....		45	100 watt	m 11.00	495.00	**
Beaverton.....	975	92	100 "	m 14.00	1,169.28	1.20
Beeton.....	578	{ 64 14	150 c.p. 100 watt	s m 16.00 16.00	{ 1,192.00	2.06
Belle River.....	560	60	100 "	m 18.00	1,080.00	1.93
Blenheim.....	1,553	{ 139 16	150 c.p. 400 "	s s 15.00 34.00	{ 2,482.00	1.60
Bloomfield.....	625	43	100 "	s 25.00	1,066.67	1.71
Blyth.....	646	{ 84 9	100 watt 200 "	m m 25.00 40.00	{ 922.50	a
Bolton.....	664	55	100 "	m 16.00	932.00	1.40
Bothwell.....	647	89	100 "	m 13.00	1,105.00	1.71
Bradford.....	995	{ 60 7	150 c.p. 100 watt	s m 22.00 21.00	{ 1,474.20	1.48
Brampton.....	4,778	610	100 "	m 7.00	4,286.00	0.90

s Series system. m Multiple system.  
a Operation for less than a year.

\*\*Population not shown in Government statistics.

## STATEMENT "E"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing  
Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
Brantford.....	30,109	{ 147 3,451 10 11 2 14	{ Mag. arcs 100 watt 150 " 200 " 500 " 750 "	{ s m m m m m 45.00 8.00 9.00 11.00 45.00 46.00	{ 34,705.62	{ 1.15
Brantford Twp.....		239	100 " "	m m 16.00 22.00	3,497.57 337.93	** **
Brechin.....		17	100 " "	m m 22.00	337.93	**
Brigden.....		{ 30 25	{ 60 " 100 " "	{ m m 15.00 18.00	{ 925.00	{ **
Brockville.....	9,384	{ 522 36 51 15	{ 100 c.p. 3 Lt. stds. 5 " 1 "	{ s m m 13.00 23.00 28.00 18.00	{ 9,188.50	{ 0.98
Brussels.....	890	{ 80 16	{ 100 watt 200 " "	{ m m 25.00 40.00	{ 880.00	{ a
Burford.....		64	100 " "	m m 15.00	960.00	**
Burgessville.....		22	100 " "	m m 15.00	330.00	**
Caledonia.....	1,326	125	100 " "	m m 9.00	1,087.20	0.82
Cannington.....	924	75	100 " "	m m 18.00	1,138.00	1.23
Carleton Place....	4,254	236	60 " "	m m 8.00	1,871.83	0.44
Chatham.....	15,084	{ 68 90 731	{ 1,000 c.p. 600 " 150 " "	{ s s s 42.00 34.00 15.00	{ 16,850.29	{ 1.12
Chatsworth.....	284	{ 26 2	{ 150 watt 100 " "	{ m m 15.00 12.00	{ 414.00	{ 1.46
Chesley.....	1,746	{ 84 24	{ 150 c.p. 400 " "	{ s s 15.00	{ 1,620.00	{ 0.93
Chesterville.....	865	65	100 watt "	m m 17.00	1,105.00	1.28
Chippawa.....	1,078	75	100 " "	m m 12.00	900.00	0.84
Clifford.....	467	51	100 " "	m m 25.00	690.63	a
Clinton.....	1,922	{ 143 11 2	{ 150 c.p. 100 watt Clusters "	{ s m m 12.00 12.00 18.00	{ 1,883.00	{ 0.98
Coldwater.....	595	45	100 watt "	m m 10.00	450.00	0.76
Collingwood.....	6,004	413	150 c.p. "	s s 8.00	3,298.30	0.55
Comber.....		50	100 watt "	m m 13.00	658.37	**
Cookstown.....		56	150 c.p. "	s s 14.00	784.00	**

s Series system. m Multiple system.

a Operation for less than a year.

\*\*Population not shown in Government statistics.



## STATEMENT "E"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing  
Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
Courtright .....	441	40	100 watt <i>m</i>	\$ c. 30.00	\$ c. 1,200.00	\$ c. 2.72
Creemore.....	630	57	100 " " <i>m</i>	10.00	569.20	0.90
Dashwood.....		41	100 " " <i>m</i>	15.00	615.00	**
Delaware.....		21	100 " " <i>m</i>	18.00	378.00	**
Dorchester.....		32	100 " " <i>m</i>	13.00	416.00	**
Drayton.....	613	60	100 " " <i>m</i>	17.00	1,020.00	1.66
Dresden.....	1,426	123	100 c.p. <i>s</i>	14.00	1,722.00	1.21
Drumbo.....		37	100 watt <i>m</i>	14.00	518.00	**
Dublin.....		36	100 " " <i>m</i>	20.00	720.00	**
Dundalk.....	727	74	100 " " <i>m</i>	10.00	740.00	1.02
Dundas.....	5,070	{ 346 1	100 " " <i>m</i> 200 " " <i>m</i>	{ 11.00 16.00 }	3,828.99	0.75
Dunnville.....	3,605	{ 214 27	100 c.p. <i>s</i> 600 " " <i>s</i>	{ 14.00 65.00 }	4,653.03	1.29
Durham.....	1,640	102	150 " " <i>s</i>	16.00	1,584.00	0.97
Dutton.....	823	101	100 watt <i>m</i>	10.00	1,019.04	1.24
Elmira.....	2,392	{ 174 8	100 " " <i>m</i> 200 " " <i>m</i>	{ 11.00 16.00 }	2,017.00	0.84
Elmvale.....		57	100 " " <i>m</i>	12.00	684.00	**
Elmwood.....		23	150 " " <i>m</i>	18.00	414.00	**
Elora.....	1,079	93	100 " " <i>m</i>	14.00	1,302.00	1.21
Embro.....	475	49	100 " " <i>m</i>	16.00	769.30	1.62
Erieau.....	153	20	100 " " <i>m</i>	22.00	185.54	<i>a</i>
Essex.....	1,591	{ 18 73	100 " " <i>m</i> 60 " " <i>m</i>	{ 27.74 15.61 }	1,868.80	***
Etobicoke Twp.....		611	100 " " <i>m</i>	14.00	7,971.05	**
Exeter.....	1,531	{ 162 23	100 " " <i>m</i> 200 " " <i>m</i>	{ 10.00 20.00 }	2,075.57	1.36
Fergus.....	1,762	{ 27 116	150 " " <i>m</i> 100 " " <i>m</i>	{ 14.00 14.00 }	1,999.13	1.13
Flesherton.....	420	46	100 " " <i>m</i>	12.00	552.00	1.31
Ford City.....	5,724	166	100 " " <i>m</i>	12.00	1,849.00	††
Forest.....	1,437	{ 36 177 19	100 " " <i>m</i> 60 " " <i>m</i> 100 " " <i>m</i>	{ 11.00 10.00 14.00 }	2,443.93	1.70

*s* Series system. *m* Multiple system.

\*\*Population not shown in Government statistics.

\*\*\*Fourteen months' operation.

*a* Operation for less than a year.

††Part of cost paid in debenture charges.

## STATEMENT "E"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing  
Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
Galt.....	13,222	{ 964 314 152 74	100 c.p. <i>s</i> 100 watt <i>m</i> 300 " <i>m</i> 500 " <i>m</i>	{ 9.00 12.00 35.00 40.00 }	20,727.75	1.57
Georgetown.....	1,973	{ 166 17	100 " <i>m</i> 100 " <i>m</i>	{ 12.00 12.00 }	2,136.00	†
Glencoe.....	840	123	100 " <i>m</i>	17.00	2,091.00	2.49
Goderich.....	4,220	{ 293 16 8 8	100 c.p. <i>s</i> 3 Lt. stds. <i>m</i> 250 watt <i>m</i> 100 " <i>m</i>	{ 11.00 40.00 25.00 20.00 }	4,223.00	1.00
Grand Valley....	616	52	100 " <i>m</i>	16.00	832.00	1.35
Granton.....		32	100 " <i>m</i>	13.00	416.00	**
Gravenhurst.....	1,609	{ 24 104 15	150 c.p. <i>s</i> 100 " <i>s</i> 100 watt <i>m</i>	{ 15.00 15.00 15.00 }	2,168.25	1.35
Guelph.....	18,420	{ 4 1,078 25 1 2 84	60 " <i>m</i> 100 " <i>m</i> 200 " <i>m</i> 400 " <i>m</i> 1,000 " <i>m</i> 300 " <i>m</i>	{ 4.00 9.00 12.50 25.00 46.50 18.75 }	10,950.60	0.59
Hagersville.....	1,155	100	100 " <i>m</i>	8.00	800.00	0.69
Hamilton.....	120,234	{ 7,862 965 412 22	100 " <i>m</i> 200 " <i>m</i> 500 " <i>m</i> 300 " <i>m</i>	{ 7.50 11.00 37.00 18.00 }	84,774.84	0.70
Hanover.....	2,714	{ 91 16 12 4	150 c.p. <i>s</i> 400 " <i>s</i> 200 watt <i>m</i> 100 " <i>m</i>	{ 27.00 32.00 32.00 27.00 }	3,010.44	1.11
Harriston.....	1,318	85	150 c.p. <i>s</i>	17.00	1,303.33	0.99
Harrow.....					655.47	***
Havelock.....	1,255	{ 63 16	100 c.p. <i>s</i> 250 " <i>s</i>	{ 24.00 34.00 }	2,056.00	1.64
Hensall.....	705	65	100 watt <i>m</i>	13.00	975.00	1.38
Hespeler.....	2,907	{ 135 28	150 c.p. <i>s</i> 400 " <i>s</i>	{ 11.00 17.50 }	1,971.33	0.68
Highgate.....	414	45	100 watt <i>m</i>	12.00	540.00	1.30
Holstein.....		14	100 " <i>m</i>	35.00	490.00	**
Humberstone....	1,428				130.50	<i>a</i>

*s* Series system. *m* Multiple system.

*a* Operation for less than a year.

†Includes Glen Williams.

\*\*Population not shown in Government statistics.

\*\*\*Fourteen months' operation.

## STATEMENT "E"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing  
Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
Huntsville.....	2,286	{ 48 23 57 13	{ 150 c.p. <i>s</i> 400 " <i>s</i> 75 watt <i>m</i> 50 " <i>m</i>	{ 14.00 36.00 10.00 10.00	2,200.00	0.96
Ingersoll.....	5,002	{ 315 26 2 13	{ 100 c.p. <i>s</i> 1,000 " <i>s</i> 1,000 " <i>s</i> 100 " <i>s</i>	{ 13.00 40.00 25.00 6.50	5,023.42	1.01
Jarvis.....	475	44	100 watt <i>m</i>	19.00	696.66	<i>a</i>
Kemptville.....	1,175	75	100 " <i>m</i>	20.50	1,537.50	1.31
Kincardine.....	2,113	{ 13 112 13 19	{ 400 c.p. <i>s</i> 150 " <i>s</i> 200 watt <i>m</i> 100 " <i>m</i>	{ 37.00 24.00 29.00 18.00	3,888.00	1.84
Kingston.....	21,975	{ 53 323 85	{ 1,000 c.p. <i>s</i> 600 " <i>s</i> 100 " <i>s</i>	{ ..... ..... .....	20,000.00	0.91
Kingsville.....	1,990	{ 100 37	{ 60 watt <i>m</i> 100 " <i>m</i>	{ 12.00 32.85	2,878.88	***
Kirkfield.....		23	100 " <i>m</i>	20.00	460.00	**
Kitchener.....	23,571	{ 1 20 6 1,902 281 125 63 154 22	{ 600 c.p. <i>s</i> 250 " <i>s</i> 500 watt <i>m</i> 80 c.p. <i>s</i> 200 watt <i>m</i> 500 " <i>m</i> 150 c.p. <i>s</i> 300 watt <i>m</i> 150 " <i>m</i>	{ 30.00 17.35 36.00 9.00 12.00 30.00 9.00 22.00 17.35	25,632.37	1.09
Lakefield.....	1,250	93	100 " <i>m</i>	20.00	1,851.68	1.48
Lambeth.....		{ 1 32	{ 500 " <i>m</i> 100 " <i>m</i>	{ 47.00 16.00	559.00	**
Lanark.....	591	35	100 " <i>m</i>	20.00	700.00	1.18
Lancaster.....	601	40	100 " <i>m</i>	30.00	1,400.00	2.33
Leamington.....	3,969				4,294.03	***
Listowel.....	2,431	{ 60 180 27	{ 100 watt <i>m</i> 60 " <i>m</i> 300 " <i>m</i>	{ 12.50 12.00 30.00	3,675.00	1.50
London.....	61,369	{ 294 2,629 94 146	{ 400 c.p. <i>s</i> 150 " <i>s</i> 500 watt <i>m</i> 100 " <i>m</i>	{ 18.00 11.00 45.00 11.00	39,270.32	0.62

*s* Series system. *m* Multiple system. \*\*Population not shown in Government statistics.

\*\*\*Fourteen months' operation. *a* Operation for less than a year.



## STATEMENT "E"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing  
Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
Lucan.....	602	67	100 watt <i>m</i>	15.00	1,005.00	1.67
Lucknow.....	917	56	100 " <i>m</i>	25.00	1,400.00	1.53
Lynden.....		33	100 " <i>m</i>	19.00	396.05	**
Markdale.....	865	65	150 c.p. <i>s</i>	10.00	650.04	0.75
Markham.....	967	{ 83 16	100 watt <i>m</i> 60 " <i>m</i>	19.00 13.00	1,785.00	1.85
Marmora.....	794	{ 40 47	100 " <i>m</i> 75 " <i>m</i>	24.00 24.00	2,088.00	2.63
Martintown.....		15	100 " <i>m</i>	25.00	375.00	**
Maxville.....	763	53	150 c.p. <i>s</i>	35.00	1,855.08	2.43
Meaford.....	2,653	{ 130 33	100 " <i>s</i> 200 watt <i>m</i>	20.00 30.00	3,698.91	†
Merlin.....		39	100 " <i>m</i>	19.50	736.16	**
Merritton.....	2,591	282	100 " <i>m</i>	10.00	2,822.50	1.09
Midland.....	7,157	{ 19 346	1,000 c.p. <i>s</i> 150 " <i>s</i>	35.00 10.00	4,061.65	0.57
Milton.....	1,900	197	100 watt <i>m</i>	10.00	1,900.84	1.00
Milverton.....	1,056	{ 85 12	100 " <i>m</i> 200 " <i>m</i>	10.00 17.00	1,054.08	1.00
Mimico.....	4,137	{ 206 63	100 " <i>m</i> 200 " <i>m</i>	13.00 23.00	3,955.91	0.96
Mitchell.....	1,739	202	100 c.p. <i>s</i>	11.00	2,191.79	1.26
Moorefield.....		25	100 watt <i>m</i>	19.00	475.00	**
Mount Brydges..		40	100 " <i>m</i>	13.00	487.50	**
Mount Forest....	1,734	{ 37 145	250 c.p. <i>s</i> 150 " <i>s</i>	19.50 14.00	2,582.66	1.49
Neustadt.....	452	39	150 " <i>s</i>	25.00	975.00	2.16
Newbury.....	307	46	100 watt <i>m</i>	18.00	828.00	2.70
New Hamburg...	1,390	240	100 " <i>m</i>	11.50	2,640.00	1.90
New Toronto....	3,182	{ 59 180	200 " <i>m</i> 75 " <i>m</i>	27.00 15.00	4,493.75	1.41
Niagara Falls....	15,404	{ 182 758 16	1,000 c.p. <i>s</i> 100 " <i>s</i> 600 " <i>s</i>	57.00 12.00 57.00	20,144.44	1.31
Niagara-on-the- Lake.....	1,714	215	100 watt <i>m</i>	11.00	2,252.37	1.30

*s* Series system. *m* Multiple system.

\*\*Population not shown in Government statistics.

†Sixteen months' operation.

## STATEMENT "E"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing  
Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
Norwich.....	1,315	{ 115 22	100 watt <i>m</i> 400 " <i>m</i>	\$ c. 12.00 42.00 }	\$ c. 2,290.75	\$ c. 1.74
Norwood.....	765	{ 82 2	100 c.p. <i>s</i> 80 " <i>s</i>	23.00 13.50 }	1,913.00	2.50
North York Twp. ....		{ 5 5 3	100 watt <i>m</i> 100 " <i>m</i> 200 " <i>m</i>	16.50 12.00 33.50 }	109.62	†
Oil Springs.....	469	43	100 " <i>m</i>	16.00	688.00	1.47
Omemee.....	450	{ 42 10	150 c.p. <i>s</i> 400 " <i>s</i>	14.00 28.00 }	868.00	1.93
Orangeville.....	2,611	{ 56 91	400 " <i>s</i> 150 " <i>s</i>	30.00 24.00 }	3,858.05	1.48
Ottawa.....	116,205	{ 59 405 329 731 387 2,900	arcs 100 c.p. <i>s</i> 400 " <i>s</i> 600 " <i>s</i> 150 " <i>s</i> 100 watt <i>m</i>	45.00 10.00 35.00 45.00 6.00 48c. per ft.)	52,938.37 16,021.68	0.46 ***
Otterville.....		29	100 " <i>m</i>	13.00	377.00	**
Owen Sound.....	12,218	{ 37 515 72 34 90 43	250 c.p. <i>s</i> 150 " <i>s</i> 300 " <i>s</i> 600 " <i>s</i> 100 watt <i>m</i> 200 " <i>m</i>	13.50 13.00 16.00 23.00 11.00 14.00 }	10,614.00	0.87
Paisley.....	735	86	100 " <i>m</i>	22.00	1,892.00	2.57
Palmerston.....	1,820	{ 121 11 2	150 c.p. <i>s</i> 400 " <i>s</i> 300 watt <i>m</i>	13.00 40.00 40.00 }	2,070.00	1.14
Paris.....	4,345	{ 418 13 25	100 c.p. <i>s</i> 400 " <i>s</i> 500 watt <i>m</i>	9.00 42.00 52.50 }	6,041.25	1.39
Parkhill.....	1,192	{ 74 15	100 " <i>m</i> 200 " <i>m</i>	14.00 23.00 }	1,381.00	1.16
Penetang.....	3,945	181	100 c.p. <i>s</i>	10.00	1,810.00	0.46
Perth.....	3,710	{ 55 15 5 4	100 " <i>s</i> 250 " <i>s</i> 400 " <i>s</i> 600 " <i>s</i>	22.00 34.00 46.00 64.00 }	2,003.33	0.54
Peterborough....	21,605	{ 104 1,170 20	Magnetite arcs 60 watt <i>m</i> 300 " <i>m</i>	50.50 9.00 27.00 }	16,369.98	0.77
Petrolia.....	2,836	{ 144 24	150 c.p. <i>s</i> 400 " <i>s</i>	14.00 45.00 }	3,256.26	1.15

*s* Series system. *m* Multiple system. \*\*Population not shown in Government statistics.

\*\*\*Collected as local improvement on frontage basis and not included in average cost.

†Thirteen months' operation.

## STATEMENT "E"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing  
Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
Picton.....	3,135	283	100 c.p. <i>s</i>	\$ c. 12.50	\$ c. 3,531.30	\$ c. 1.13
Plattsville.....		33	100 watt <i>m</i>	18.00	588.00	**
Point Edward....	1,116	56	150 c.p. <i>s</i>	15.00	770.00	0.69
Port Arthur.....	15,681	2,783	..... <i>m</i>	.....	16,509.23	1.05
Port Colborne....	3,624	227	100 watt <i>m</i>	16.00	3,345.92	0.92
Port Credit.....	1,134	111	100 " <i>m</i>	11.00	1,221.00	1.08
Port Dalhousie...	1,467	104	100 " <i>m</i>	15.00	1,560.00	1.07
Port Dover.....	1,573	{ 12 102	300 " <i>m</i> 100 " <i>m</i>	{ 40.00 18.00 }	2,235.00	1.42
Port McNicoll...	650	42	100 " <i>m</i>	13.00	546.00	0.84
Port Perry.....	1,115	{ 91 4	100 " <i>m</i> 75 " <i>m</i>	{ 20.00 Flat Rate }	2,014.69	1.81
Port Stanley.....	726	165	100 " <i>m</i>	13.00	2,145.00	†
Prescott.....	2,597	{ 161 210	100 " <i>m</i> 2-Lt. brckts <i>m</i>	{ 10.00 17.00 }	3,395.00	1.31
Preston.....	5,576	{ 2 293 34 6 8	600 c.p. <i>s</i> 150 " <i>s</i> 1,000 " <i>s</i> 1,000 " <i>s</i> 400 " <i>s</i>	{ 21.00 11.00 48.00 39.00 23.00 }	5,450.35	0.98
Priceville.....		14	100 watt <i>m</i>	31.50	469.50	**
Princeton.....		21	100 " <i>m</i>	20.00	420.00	**
Queenston.....		31	100 " <i>m</i>	16.00	494.76	**
Ridgetown.....	1,947	{ 137 17	150 c.p. <i>s</i> 600 " <i>s</i>	{ 14.00 30.00 }	2,427.97	1.25
Ripley.....		49	100 watt <i>m</i>	27.00	1,323.00	**
Riverside.....	3,034	73	250 c.p. <i>s</i>	27.50	1,620.00	††
Rockwood.....		69	100 watt <i>m</i>	12.00	804.25	**
Rodney.....	711	82	100 " <i>m</i>	13.00	1,062.72	1.49
St. Catharines....	21,194	2,868	100 " <i>m</i>	7.50	21,998.78	1.04
St. George.....		35	100 " <i>m</i>	9.00	315.00	**
St. Jacobs.....		40	100 " <i>m</i>	12.00	480.00	**
St. Marys.....	4,017	{ 216 121	100 c.p. <i>s</i> 250 " <i>s</i>	{ 10.00 16.00 }	4,085.00	1.02

*s* Series system. *m* Multiple system. \*\*Population not shown in Government statistics.

† Summer population not in statistics. ††Part of cost paid in debenture charges.



## STATEMENT "E"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing  
Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
St. Thomas.....	17,779	{ 28 114 1,057	{ 250 c.p. 600 " 100 "	{ s s s 14.25 37.50 9.50	{ 14,687.30	{ 0.83
Sandwich.....	5,010	{ 366 56 10	{ 100 " 400 " 100 watt	{ s s m 13.00 28.00 13.00	{ 4,256.64	{ a
Sarnia.....	15,176	{ 78 662	{ 1,000 c.p. 150 "	{ s s 45.00 13.00	{ 12,141.99	{ 0.80
Scarboro' Twp.....		{ 332 140	{ 100 watt 150 c.p.	{ m s 15.00 17.00	{ 6,537.46	{ **
Seaforth.....	1,902	{ 70 63 21	{ 80 " 60 " 60 "	{ s s s 12.00 10.00 12.00	{ 1,722.00	{ 0.91
Sebringville.....		15	100 watt	m 12.00		**
Shelburne.....	1,093	91	150 c.p.	s 12.00	1,092.00	1.00
Simcoe.....	4,049	{ 27 256 11	{ 250 " 150 " 100 watt	{ s s m 25.00 9.00 9.00	{ 3,109.00	{ 0.77
Smiths Falls.....	6,592	{ 219 50	{ 100 " 200 "	{ m m 14.00 19.00	{ 3,944.08	{ 0.60
Springfield.....	381	40	100 "	m 17.00	680.00	1.78
Stamford Twp.....		449	100 "	m 10.00	4,434.57	**
Stayner.....	1,030	{ 17 60	{ 200 c.p. 150 "	{ m s 15.00 11.00	{ 915.00	{ 0.89
Stouffville.....	1,115	93	100 watt	m 23.00	2,139.00	1.92
Stratford.....	18,224	{ 787 11 45 167	{ 150 c.p. 1,000 " 1,000 " 1,000 "	{ s s s s 11.00 50.00 40.00 45.00	{ 18,643.56	{ 1.02
Strathroy.....	2,642	{ 311 32	{ 100 " 250 "	{ s s 9.00 15.00	{ 3,261.00	{ 1.23
Sunderland.....		27	100 watt	m 20.00	540.00	**
Sutton.....	847	103	100 "	m 23.00	2,369.00	2.80
Tara.....	502	68	100 "	m 25.00	1,700.00	3.39
Tavistock.....	1,027	{ 68 35	{ 100 " 200 "	{ m m 12.00 16.00	{ 1,357.92	{ 1.32
Tecumseh.....	1,133	29	100 "	m 12.00	337.00	††
Teeswater.....	813	{ 20 27	{ 400 c.p. 150 "	{ s s 45.00 28.00	{ 1,656.00	{ 2.04
Thamesford.....		34	100 watt	m 15.00	510.00	**

s Series system. m Multiple system. \*\*Population not shown in Government statistics.

a Operation for less than a year. ††Part of cost paid direct in the form of debenture charges.

## STATEMENT "E"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing  
Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
Thamesville.....	785	77	100 watt <i>m</i>	\$ c. 10.00	\$ c. 770.00	\$ c. 0.98
Thedford.....	506	65	100 " <i>m</i>	20.00	1,300.00	2.57
Thorndale.....		28	100 " <i>m</i>	16.00	448.00	**
Thornton.....		21	100 " <i>m</i>	40.00	840.00	**
Thorold.....	5,033	{ 60 249 32 23	{ 100 " <i>m</i> 60 " <i>m</i> 200 " <i>m</i> 4-Lt. clstr. <i>m</i>	{ 10.00 7.00 15.00 16.00	3,191.00	0.63
Tilbury.....	1,981	{ 90 1	{ 100 watt <i>m</i> 200 " <i>m</i>	{ 11.00 22.00	1,028.85	0.52
Tillsonburg.....	3,086	{ 48 2 244	{ 250 c.p. <i>s</i> 1,000 " <i>s</i> 100 " <i>s</i>	{ 16.00 50.00 10.00	3,265.62	1.06
Toronto.....	529,210	{ 7 6 43,041 123 894 91 1,329 43 5 439 24 353	{ 50 watt <i>m</i> 60 " <i>m</i> 100 " <i>m</i> 150 " <i>m</i> 200 " <i>m</i> 250 " <i>m</i> 300 " <i>m</i> 500 " <i>m</i> 1,000 " <i>m</i> 5-Lt. stds. <i>m</i> 1-Lt. stds., 500 watt <i>m</i> 1-Lt. stds., 300 watt <i>m</i>	{ 6.56 4.80 8.00-12.00 12.00-15.00 18.00-24.00 20.00-24.50 28.00 45.00 90.00 47.50 52.50 58.00	447,069.08	0.84
Toronto Twp.....		{ 11 171 52 1	{ 100 " <i>m</i> 100 " <i>m</i> 100 " <i>m</i> 200 " <i>m</i>	{ 16.50 19.00 18.50 66.00	2,815.00	**
Tottenham.....	519	49	150 c.p. <i>s</i>	25.00	1,225.00	2.36
Uxbridge.....	1,453	126	100 watt <i>m</i>	18.00	2,268.00	1.56
Vaughan Twp.....		14	100 " <i>m</i>	17.00	238.00	**
Victoria Harbour.	1,453	73	100 " <i>m</i>	11.00	753.50	0.52
Walkerville.....	7,469	{ 48 504 360	{ 600 c.p. <i>s</i> 60 watt <i>m</i> 100 " <i>m</i>	{ 47.00 6.60 10.00	7,533.38	††
Wallaceburg.....	4,530	{ 180 29	{ 150 c.p. <i>s</i> 600 " <i>s</i>	{ 12.00 25.00	2,872.92	0.63
Warkworth.....		32	100 watt <i>m</i>	30.00	955.00	**
Wardsville.....	195	31	75 " <i>m</i>	29.00	620.00	3.18
Waterdown.....	811	94	100 " <i>m</i>	10.00	940.00	1.16

*s* Series system. *m* Multiple system. \*\*Population not shown in Government statistics.

††Part of cost paid direct in the form of debenture charges.

## STATEMENT "E"—Concluded

Street Lighting Installation in Hydro Municipalities, December 31, 1924, showing  
Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps		Cost per lamp per annum	Total cost per annum	Cost per capita
Waterford.....	1,065	120	100 watt	<i>m</i>	\$ c. 10.00	\$ c. 1,213.40	\$ c. 1.14
Waterloo.....	6,096	434	100 c.p.	<i>s</i>	10.00	6,894.27	1.13
		38	100 watt	<i>m</i>	10.00		
		14	200 "	<i>m</i>	15.00		
		44	5-Lt. stds.	<i>m</i>	40.00		
		10	3-Lt. stds.	<i>m</i>	25.00		
Watford.....	1,059	90	100 watt	<i>m</i>	12.00	1,102.50	1.04
Waubashene.....		31	100 "	<i>m</i>	10.00	310.00	**
Welland.....	8,636	124	200 "	<i>m</i>	18.00	7,490.97	0.87
		453	100 "	<i>m</i>	11.00		
Wellesley.....		59	100 "	<i>m</i>	15.00	885.00	**
Wellington.....	812	65	100 c.p.	<i>s</i>	14.00	910.00	1.12
West Lorne.....	812	82	100 watt	<i>m</i>	10.00	1,034.50	1.24
		9	200 "	<i>m</i>	18.00		
Weston.....	3,569	108	600 c.p.	<i>s</i>	50.00	8,820.15	2.47
		385	100 "	<i>s</i>	8.00		
		32	150 "	<i>s</i>	9.00		
		3	250 "	<i>s</i>	15.00		
		4	5-Lt. stds.	<i>m</i>	25.00		
		20	300 watt	<i>m</i>	20.00		
Wheatley.....	647	2	100 "	<i>m</i>	8.00	1,225.00	<i>a</i>
		49	100 "	<i>m</i>	30.00		
Whitby.....	4,174	209	80 c.p.	<i>s</i>	7.50	2,632.66	0.63
		118	100 watt	<i>m</i>	7.50		
		1	500 "	<i>m</i>	11.50		
Williamsburg.....		18	100 "	<i>m</i>	15.00	270.00	**
Winchester.....	1,090	117	100 "	<i>m</i>	10.00	1,170.00	1.07
Windsor.....	42,122	2,320	100 c.p.	<i>s</i>	13.00	55,909.51	††
		266	400 "	<i>s</i>	28.00		
		485	600 "	<i>s</i>	50.00		
Wingham.....	2,440	91	150 "	<i>s</i>	28.00	4,345.01	1.78
		25	400 "	<i>s</i>	40.00		
		20	200 watt	<i>m</i>	40.00		
Woodbridge.....	675	80	100 "	<i>m</i>	11.00	876.00	1.30
Woodstock.....	10,196	50	250 c.p.	<i>s</i>	20.00	6,812.67	0.67
		448	100 "	<i>s</i>	8.00		
		174	60 watt	<i>m</i>	8.00		
		105	100 "	<i>m</i>	8.00		
Woodville.....	458	36	100 "	<i>m</i>	15.00	540.00	1.18
Wyoming.....	503	50	100 "	<i>m</i>	20.00	1,000.00	1.99
Zurich.....		62	100 "	<i>m</i>	12.00	735.00	**

*s* Series system. *m* Multiple system. \*\*Population not shown in Government statistics.

††Part of cost paid direct in the form of debenture charges.



# STATEMENT Cost of Power to Hydro Municipalities

Municipality	Interim rates at which power is billed to the municipality and adjusted to cost at the end of the year													
	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	
Acton.....d		36 00	36 00	36 00	36 00	36 00	36 00	35 00	32 00	32 00	37 00	37 00	35 00	
Agincourt.....d												51 00	40 00	
Ailsa Craig.....d					49 67	49 67	49 67	49 00	49 00	49 00	49 00	49 00	49 00	
Alexandria.....d									65 00	80 00	80 00	80 00	80 00	
Alliston.....d							40 00	40 00	50 00	60 00	55 00	55 00	60 00	
Alvinston.....d											95 95	95 95	85 00	
Ancaster.....d								25 81	25 81	25 81	25 81	25 81	25 81	
Apple Hill.....a									60 00	85 00	85 00	85 00	80 00	
Arthur.....d						45 00	45 00	45 00	65 00	85 00	85 00	85 00	98 00	
Aylmer.....d							39 00	38 00	38 00	45 00	50 00	50 00	46 00	
Ayr.....d				37 40	37 40	37 40	37 40	45 00	50 00	50 00	50 00	50 00	43 00	
Baden.....d	36 95	37 00	32 00	32 00	32 00	32 00	32 00	32 00	32 00	32 00	36 00	36 00	35 00	
Barrie.....d		33 70	33 70	33 70	33 70	31 00	31 00	29 00	29 00	29 00	29 00	29 00	28 00	
Barton Twp.....d													29 02	
Beachville.....d	33 89	31 00	31 00	31 00	31 00	28 00	28 00	27 00	27 00	30 00	37 00	37 00	36 00	
Beaverton.....d				6 17	59 00	41 21	41 21	45 00	55 00	60 00	52 00	50 00	50 00	
Beeton.....d							45 00	45 00	85 00	85 00	85 00	75 00	75 00	
Belle River.....d												92 00	60 00	
Blenheim.....d					43 70	43 70	43 70	50 00	50 00	53 00	54 00	50 00	48 00	
Bloomfield.....d								66 16	66 16	66 16	72 50	72 50	70 00	
Blyth.....d													91 20	
Bolton.....d				43 00	43 00	43 00	43 00	43 00	60 00	60 00	60 00	60 00	55 00	
Bothwell.....d				59 26	59 26	59 26	59 26	60 00	60 00	60 00	55 00	55 00	50 00	
Bradford.....d							47 00	47 00	75 00	75 00	75 00	75 00	84 00	
Brampton.....b	29 00	25 00	25 00	25 00	24 00	22 00	22 00	22 00	20 00	20 00	26 00	28 00	30 00	
Brantford.....a			19 50	19 50	19 00	19 00	19 00	18 00	18 00	20 00	25 00	25 00	25 00	
Brantford Twp.....d														
Brechin.....d				56 79	67 00	50 00	50 00	55 00	85 00	90 00	90 00	85 00	85 00	
Bridgeport, ext.....d			Serv	ed by	Kitchener									
Brigden.....d						57 56	57 50	57 50	57 50	60 00	66 00	70 00	78 00	
Brockville.....d							30 00	40 00	45 19	55 00	55 00	40 00	38 00	
Brussels.....d													76 16	
Bullock's Corners and Greensville, ext.....d			Serv	ed by	Dundas									
Burford.....d				37 50	37 50	37 50	37 50	60 00	70 00	70 00	70 00	60 00	56 00	
Burgessville.....d						48 38	48 38	48 00	48 00	48 00	52 00	58 00	55 00	
Caledonia.....d	29 10	29 10	24 00	24 00	24 00	24 00	24 00	24 00	24 00	24 00	29 00	29 00	29 00	
Cannington.....d				65 77	63 00	45 79	45 79	50 00	65 00	65 00	65 00	55 00	55 00	
Carleton Place.....d								33 00	33 00	44 00	44 00	44 00	46 50	
Chatham.....a				30 78	30 78	30 78	30 78	29 00	29 00	28 00	31 00	31 00	31 00	
Chatsworth.....d				30 18	30 18	30 18	30 18	30 00	45 00	60 00	70 00	60 00	50 00	
Chesley.....d					40 00	40 00	40 00	40 00	45 00	55 00	55 00	50 00	50 00	
Chesterville.....d			36 12	43 29	46 00	46 00	46 00	46 00	76 73	85 00	85 00	65 00	60 00	
Chippawa.....d								35 00	35 00	32 00	32 00	25 00	30 00	
Clifford.....d													100 50	
Clinton.....a			39 00	39 00	42 00	42 00	42 00	43 00	43 00	46 00	48 00	50 00	50 00	
Coldwater.....d		28 00	28 00	28 00	28 00	28 00	28 00	40 00	50 00	60 00	60 00	40 00	35 00	
Collingwood.....d		33 79	33 79	33 79	33 79	33 79	30 00	30 00	28 00	28 00	36 00	45 00	40 00	
Comber.....d					56 22	56 22	56 22	60 00	60 00	60 00	60 00	50 00	48 00	
Cookstown.....d							35 00	35 00	60 00	60 00	60 00	60 00	58 00	
Courtright.....d													97 30	
Creemore.....d			54 13	54 13	54 13	54 13	54 13	60 00	55 00	65 00	70 00	60 00	55 00	
Dashwood.....d							56 75	56 00	56 00	56 00	62 00	62 00	62 00	
Delaware.....d				46 56	45 56	46 56	45 56	50 00	85 00	85 00	85 00	75 00	70 00	
Dereham Twp.....d														
Dorchester.....d				45 00	45 00	45 00	45 00	50 00	50 00	50 00	50 00	50 00	48 00	
Drayton.....d							60 45	60 00	65 00	70 00	72 00	70 00	68 00	
Dresden.....d				43 00	43 00	43 00	43 00	42 00	38 00	38 00	38 00	38 00	38 00	
Drumbo.....d				40 73	40 73	40 73	40 73	45 00	60 00	55 00	55 00	50 00	45 00	
Dublin.....d						47 91	47 91	48 00	60 00	60 00	70 00	70 00	70 00	
Dundalk.....d					27 30	27 30	27 30	27 30	38 00	50 00	55 00	45 00	43 00	
Dundas.....b	17 00	16 00	15 00	15 00	14 00	14 00	14 00	14 00	14 00	17 00	22 00	23 00	23 00	
Dunnville.....a							27 77	27 77	35 00	40 00	50 00	42 00	38 00	
Durham.....d					33 97	33 97	33 97	33 00	45 00	50 00	50 00	40 00	38 00	
Dutton.....d				43 53	43 53	43 53	43 53	43 00	40 00	40 00	44 00	44 00	43 00	
Elmira.....d		38 00	38 00	38 00	38 00	38 00	38 00	38 00	38 00	38 00	38 00	35 00	34 00	

Note a—Power delivered at 45,000, 26,400 or 22,000 volts.

Note b—Power delivered at 13,200 or 12,000 volts.

“ F ”  
and Power Rates to Consumers

Power rates to consumers										
1923					1924					
Service charge per horsepower per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Prompt payment discount	Service charge per horsepower per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Maximum per horsepower per month net	Prompt payment discount
\$ c.	cents	cents	cents	%	\$ c.	cents	cents	cents	\$ c.	%
1.00	3.1	2.0	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	4.9	3.3	0.15	10	1.00	4.2	2.8	0.5	3.75	10
1.00	4.5	3.0	0.15	10	1.00	3.9	2.6	0.5	3.60	10
1.00	6.4	4.3	0.15	10	1.00	6.4	4.3	0.5	5.00	10
1.00	4.9	3.3	0.15	10	1.00	4.6	3.1	0.5	4.00	10
1.00	8.3	5.5	0.15	10	1.00	7.1	4.7	0.5	5.45	10
1.00	3.0	2.0	0.15	10	1.00	3.0	2.0	0.5	3.05	10
1.00	6.5	4.4	0.15	10	1.00	6.5	4.4	0.5	5.10	10
1.00	6.8	4.6	0.15	10	1.00	6.8	4.6	0.5	5.25	10
1.00	4.9	3.3	0.15	10	1.00	4.7	3.1	0.5	4.00	10
1.00	4.9	3.3	0.15	10	1.00	3.9	2.6	0.5	3.60	10
1.00	3.5	2.3	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	2.0	1.4	0.15	10	1.00	1.7	1.1	0.5	2.20	10 & 10
1.00	2.5	1.7	0.15	10	1.00	2.5	1.7	0.15	...	10
1.00	2.2	1.5	0.15	10	1.00	2.0	1.33	0.5	2.25	10 & 10
1.00	4.2	2.8	0.15	10	1.00	3.6	2.4	0.5	3.45	10
1.00	4.9	3.3	0.15	10	1.00	4.6	3.1	0.5	4.00	10
1.00	8.6	5.7	0.15	10	1.00	5.4	3.6	0.5	4.40	10
1.00	4.9	3.3	0.15	10	1.00	4.2	2.8	0.5	3.75	10
1.00	6.5	4.3	0.15	10	1.00	6.5	4.3	0.15	...	10
1.00	5.4	3.6	0.15	10	1.00	9.4	6.3	0.5	6.75	10
1.00	6.4	4.3	0.15	10	1.00	5.4	3.6	0.5	4.40	10
1.00	4.9	3.3	0.15	10	1.00	6.1	4.1	0.5	4.85	10
1.00	2.33	1.56	0.167	10 & 10	1.00	4.6	3.1	0.5	4.00	10
1.00	2.00	1.4	0.15	10	1.00	2.2	1.5	0.5	2.60	10
1.00	2.8	1.8	0.15	10	1.00	2.00	1.4	0.15	...	10
1.00	6.8	4.6	0.15	10	1.00	2.8	1.8	0.5	2.90	10
1.00	2.8	1.8	0.15	10	1.00	6.8	4.6	0.5	5.25	10
1.00	6.8	4.6	0.15	10	1.00	3.7	2.2	0.2	...	10
1.00	4.7	3.1	0.15	10	1.00	6.8	4.6	0.5	5.25	10
...	...	...	...	...	1.00	3.5	2.3	0.5	3.35	10
1.00	3	2	0.15	10	1.00	9.4	6.3	0.5	5.33	10
1.00	4.9	3.3	0.15	10	1.00	3	2	0.15	...	10
1.00	5.2	3.5	0.15	10	1.00	4.2	2.8	0.5	3.75	10
1.00	2.6	1.8	0.15	10	1.00	4.9	3.3	0.5	4.15	10
1.00	5.6	3.8	0.15	10	1.00	2.6	1.8	0.5	2.85	10
1.00	3.6	2.4	0.15	10	1.00	5.6	3.8	0.5	4.60	10
1.00	2.5	1.7	0.15	10	1.00	4.2	2.8	0.5	3.75	10
1.00	4.9	3.3	0.15	10	1.00	2.5	1.7	0.5	2.75	10
1.00	4.9	3.3	0.15	10	1.00	4.9	3.3	0.5	4.20	10
1.00	4.9	3.3	0.15	10	1.00	4.6	3.1	0.5	4.00	10
1.00	5.2	3.5	0.15	10	1.00	4.9	3.3	0.5	4.15	10
1.00	2	1.4	0.15	10	1.00	2	1.4	0.5	2.50	10
1.00	5.4	3.6	0.15	10	1.00	7.1	4.7	0.5	5.33	10
1.00	4.2	2.8	0.15	10	1.00	5.4	3.6	0.5	4.40	10
1.00	2.5	1.7	0.15	10	1.00	3.7	2.5	0.5	3.50	10
1.00	5.6	3.8	0.15	10	1.00	2.2	1.5	0.5	2.35	10 & 10
1.00	4.9	3.3	0.15	10	1.00	4.5	3.0	0.5	3.90	10
...	...	...	...	...	1.00	4.6	3.1	0.5	4.00	10
1.00	6.4	4.3	0.15	10	1.00	...	...	...	...	...
1.00	6.7	4.5	0.15	10	1.00	6.1	4.1	0.5	4.85	10
1.00	5.4	3.6	0.15	10	1.00	6.7	4.5	0.5	5.15	10
1.00	4.9	3.3	0.15	10	1.00	5.4	3.6	0.5	4.40	10
1.00	7.1	4.7	0.15	10	1.00	4.2	2.8	0.5	3.75	10
1.00	3.6	2.4	0.15	10	1.00	6.8	4.6	0.5	5.25	10
1.00	4.8	3.2	0.15	10	1.00	3.2	2.1	0.5	3.15	10
1.00	6.4	4.3	0.15	10	1.00	4.8	3.2	0.5	4.10	10
1.00	3.9	2.6	0.15	10	1.00	6.4	4.3	0.5	5.00	10
1.00	2.0	1.33	0.167	10 & 10	1.00	3.9	2.6	0.5	3.60	10
1.00	3.9	2.6	0.15	10	1.00	1.67	1.11	0.5	2.10	10 & 10
1.00	3.9	2.6	0.15	10	1.00	3.3	2.2	0.5	3.25	10
1.00	3.5	2.3	0.15	10	1.00	3.1	2.1	0.5	3.10	10
1.00	3.6	2.4	0.15	10	1.00	3.5	2.3	0.5	3.35	10
1.00	3.6	2.4	0.15	10	1.00	2.9	1.9	0.5	3.00	10

Note c—Power delivered at 6,600 volts.  
Note d—Power delivered at 4,000 or 2,000 volts.



# STATEMENT

## Cost of Power to Hydro Municipalities

Municipality	Interim rates at which power is billed to the municipality and adjusted to cost at the end of the year													
	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	
Elmvalle.....d		31 00	31 00	31 00	31 00	31 00	31 00	31 00	37 00	37 00	37 00	35 00	31 00	
Elmwood.....d							35 00	35 00	45 00	55 00	55 00	55 00	50 00	
Elora.....d			33 97	33 97	33 97	33 97	33 97	40 00	40 00	40 00	44 00	40 00	38 00	
Embro.....d				39 85	45 00	45 00	45 00	60 00	75 00	75 00	80 00	70 00	68 00	
Erieau.....d													84 28	
Essex.....d														
Etobicoke Twp.....d						27 00	27 00	27 00	27 00	27 00	27 00	30 00	20 00	
Exeter.....d					41 66	41 66	41 66	41 00	41 00	41 00	46 00	55 00	28 00	
Fergus.....d			33 97	33 97	33 97	33 97	33 97	40 00	40 00	44 00	47 00	40 00	48 00	
Flesherton.....d					25 96	25 96	25 96	26 00	36 00	45 00	55 00	55 00	36 00	
Ford City.....d														
Forest.....d						63 27	63 27	63 00	60 00	60 00	60 00	46 42	38 00	
Forest Hill.....d												55 00	55 00	
Galt.....c	25 00	22 00	21 50	21 50	21 00	20 00	20 00	20 00	20 00	21 00	25 00	28 00	28 00	
Georgetown.....d				Served by	Brec	lin								
Georgetown.....d		36 00	36 00	36 00	36 00	36 00	36 00	36 00	35 00	35 00	38 00	38 00	38 00	
Glencoe.....d									78 35	78 35	76 00	70 00	65 00	
Glen Williams, ext.....d				Served by	Geor	getow n								
Goderich.....a			37 00	37 00	43 00	43 00	43 00	43 00	43 00	50 00	55 00	57 00	55 00	
Grand Valley.....d						45 00	45 00	45 00	60 00	70 00	60 00	60 00	72 00	
Grantham Twp.....d														
Granton.....d					48 61	48 61	48 61	48 00	55 00	55 00	55 00	55 00	55 00	
Gravenhurst.....c									15 00	15 00	20 00	20 00	18 00	
Guelph.....b	25 00	22 00	21 00	21 00	20 00	20 00	20 00	19 00	19 00	20 00	25 00	27 00	27 00	
Hagersville.....d		33 21	33 21	33 21	33 21	33 21	33 21	34 00	36 00	36 00	36 00	32 00	32 00	
Hamilton.....b	17 00	16 00	15 00	15 00	14 00	14 00	14 00	14 00	14 00	16 00	20 00	24 00	24 00	
Hanover.....d							35 00	35 00	35 00	40 00	35 00	35 00	36 00	
Harriston.....d					46 62	46 62	46 62	48 00	52 00	55 00	50 00	50 00	50 00	
Harrow.....d													50 00	
Havelock.....d											65 00	65 00	58 00	
Hensall.....d														
Hespeler.....c	26 00	23 00	23 00	23 00	22 50	21 00	21 00	21 00	21 00	23 00	29 00	30 00	30 00	
Highgate.....d						51 82	51 82	51 00	51 00	55 00	55 00	55 00	50 00	
Holstein.....d					43 50	43 50	43 50	44 00	75 00	90 00	90 00	90 00	90 00	
Hornings Mills.....d														
Humberstone.....d													27 68	
Huntsville.....d						22 51	22 51	25 00	25 00	25 00	25 00	25 00	27 00	
Ingersoll.....b	28 00	25 50	25 50	25 50	25 00	23 00	23 00	23 00	21 00	23 00	29 00	30 00	30 00	
Jarvis.....d													45 00	
Kemptville.....d										85 00	80 00	60 00	60 00	
Kincardine.....d														
Kingston.....a							28 00		25 00	25 00	27 00	26 00	26 00	
Kingsville.....d													50 00	
Kirkfield.....d									45 00	60 00	60 00	55 00	55 00	
Kitchener.....b	25 00	22 50	21 50	21 50	21 00	20 00	20 00	19 00	19 00	20 00	25 00	27 00	27 00	
Lakefield.....d									36 00	36 00	45 00	45 00	42 00	
Lambeth.....d				46 56	46 56	46 56	46 56	50 00	85 00	75 00	75 00	70 00	70 00	
Lanark.....d									92 50	92 50	92 50	75 00	75 00	
Lancaster.....d									97 00	97 00	97 00	97 00	97 00	
Leamington.....d													60 00	
Listowel.....d														
London.....b	28 00	24 00	23 00	23 00	22 00	21 00	21 00	19 00	19 00	20 00	25 00	25 00	25 00	
London Twp.....d														
Lucan.....d				47 74	47 74	47 74	47 74	40 00	40 00	35 00	38 00	40 00	40 00	
Lucknow.....d											60 00	65 00	75 00	
Lynden.....d				33 00	33 00	33 00	33 00	40 00	50 00	50 00	50 00	45 00	43 00	
Markdale.....d					23 24	23 24	23 24	23 00	35 00	50 00	50 00	40 00	39 00	
Markham.....d									77 74	77 74	70 00	65 00	60 00	
Marmora.....d											35 00	35 00	35 00	
Martintown.....d									54 00	85 00	85 00	75 00	75 00	
Maxville.....d									86 00	86 00	86 00	86 00	86 00	
Meaford.....d												60 00	60 00	
Merlin.....d												60 00	55 00	
Merritton.....b											18 00	20 00	20 00	
Midland.....d	21 00	20 30	19 45	19 37	19 37	19 00	19 00	20 00	28 00	32 00	32 00	30 00	26 00	

Note a—Power delivered at 46,000, 26,400 or 22,000 volts.

Note b—Power delivered at 13,200 or 12,000 volts.



# "F"—Continued and Power Rates to Consumers

Power rates to consumers

1923					1924					
Service charge per horsepower per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Prompt payment discount	Service charge per horsepower per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Maximum per horsepower per month net	Prompt payment discount
\$ c.	cents	cents	cents	%	\$ c.	cents	cents	cents	\$ c.	%
1.00	3.5	2.3	0.15	10	1.00	3.0	2.0	0.5	3.00	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.5	4.45	10
1.00	3.6	2.4	0.15	10	1.00	3.2	2.1	0.5	3.15	10
1.00	7.1	4.7	0.15	10	1.00	6.8	4.6	0.5	5.25	10
....	...	...	....	..	....	...	...	...	....	..
1.00	2.8	1.8	0.15	10	1.00	6.8	4.6	0.15	...	10
1.00	4.2	2.8	0.15	10	1.00	2.5	1.7	0.5	2.75	10
1.00	3.6	2.4	0.15	10	1.00	3.9	2.6	0.5	3.60	10
1.00	4.2	2.8	0.15	10	1.00	3.2	2.1	0.5	3.15	10
1.00	4.2	2.8	0.15	10	1.00	4.2	2.8	0.5	3.75	10
1.00	3.1	2.0	0.15	10	1.00	3.5	2.3	0.5	3.35	10
1.00	6.4	4.3	0.15	10	1.00	5.6	3.8	0.5	4.60	10
1.00	2.6	1.8	0.15	10	1.00	2.0	1.4	0.5	2.50	10
1.00	8.7	5.8	0.15	10	1.00	2.6	1.8	0.5	2.85	10
1.00	8.7	5.8	0.15	10	1.00	8.7	5.8	0.5	....	10
1.00	2.5	1.7	0.15	10	1.00	2.	1.4	0.5	2.50	10
1.00	7.1	4.7	0.15	10	1.00	6.1	4.1	0.5	4.85	10
1.00	4.1	2.7	0.15	10	1.00	4.1	2.7	0.5	3.65	10
1.00	4.8	3.2	0.15	10	1.00	4.8	3.2	0.5	4.10	10
1.00	6.8	4.6	0.15	10	1.00	6.6	4.4	0.5	5.10	10
1.00	5.2	3.5	0.15	10	1.00	4.9	3.3	0.5	4.15	10
1.00	3.2	2.1	0.15	10	1.00	2.7	1.8	0.5	2.95	10
1.00	1.67	1.11	0.133	10 & 10	1.00	1.67	1.11	0.133	....	10 & 10
1.00	2.0	1.4	0.15	10	1.00	2.0	1.4	0.5	2.60	10
1.00	1.67	1.11	0.15	10 & 10	1.00	1.67	1.11	0.15	....	10 & 10
1.00	3.1	2.0	0.15	10	1.00	2.4	1.6	0.5	2.75	10
1.00	4.8	3.2	0.15	10	1.00	4.2	2.8	0.5	3.75	10
1.00	3.6	2.4	0.15	10	1.00	5.4	3.6	0.15	....	10
1.00	3.6	2.4	0.15	10	1.00	3.6	2.4	0.15	....	10
1.00	6.4	4.3	0.15	10	1.00	6.1	4.1	0.5	4.85	10
1.00	2.8	1.8	0.15	10	1.00	2.5	1.7	0.5	2.75	10
1.00	5.6	3.8	0.15	10	1.00	5.1	3.4	0.5	4.25	10
1.00	9.3	6.2	0.15	10	1.00	9.3	6.2	0.15	....	10
1.00	5.6	3.8	0.15	10	1.00	5.6	3.8	0.5	....	10
1.00	3.5	2.25	0.15	10	1.00	2.7	1.8	0.5	2.90	10
1.00	2.2	1.5	0.15	10	1.00	3.5	2.25	0.5	3.35	10
1.00	7.8	5.2	0.15	10	1.00	2.2	1.5	0.15	....	10
1.00	7.8	5.2	0.15	10	1.00	5.2	3.5	0.15	....	10
1.00	7.8	5.2	0.15	10	1.00	7.4	4.9	0.5	5.60	10
1.00	5.4	3.6	0.15	10	1.00	4.6	3.1	0.5	4.00	10
1.00	1.83	1.233	0.156	10 & 10	1.00	1.83	1.233	0.156	....	10 & 10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.15	....	10
1.00	2.0	1.4	0.15	10	1.00	5.4	3.6	0.5	4.45	10
1.00	2.0	1.4	0.15	10	1.00	2.0	1.4	0.15	....	10
1.00	4.2	2.8	0.15	10	1.00	3.5	2.3	0.15	....	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.5	4.40	10
1.00	7.8	5.2	0.15	10	1.00	7.8	5.2	0.5	5.85	10
1.00	8.6	5.7	0.15	10	1.00	8.6	5.7	0.5	6.25	10
....	...	...	....	..	1.00	6.8	4.6	0.15	....	10
1.00	3.8	2.5	0.15	10	1.00	3.5	2.3	0.5	3.35	10
1.00	2.33	1.56	0.167	10 & 10	1.00	2.33	1.56	0.167	....	10 & 10
1.00	3.9	2.6	0.15	10	1.00	3.5	2.3	0.5	3.33	10
1.00	7.1	4.7	0.15	10	1.00	3.6	2.4	0.5	3.40	10
1.00	7.1	4.7	0.15	10	1.00	7.1	4.7	0.15	....	10
1.00	4.2	2.8	0.15	10	1.00	3.6	2.4	0.5	3.40	10
1.00	3.5	2.3	0.15	10	1.00	3.5	2.3	0.5	3.35	10
1.00	7.8	5.2	0.15	10	1.00	6.8	4.6	0.5	5.25	10
1.00	4.2	2.8	0.15	10	1.00	4.2	2.8	0.15	....	10
1.00	6.4	4.3	0.15	10	1.00	6.4	4.3	0.5	5.00	10
1.00	8.0	5.3	0.15	10	1.00	8.0	5.3	0.5	5.90	10
1.00	5.4	3.6	0.15	10	1.00	4.9	3.3	0.5	4.20	10
1.00	7.4	4.9	0.15	10	1.00	5.8	3.9	0.5	4.68	10
1.00	1.67	1.11	0.133	10 & 10	1.00	1.67	1.11	0.133	....	10 & 10
1.00	2.00	1.4	0.15	10	1.00	1.9	1.2	0.5	2.10	10 & 10

Note c—Power delivered at 6,600 volts.

Note d—Power delivered at 4,000 or 2,200 volts.

# STATEMENT

## Cost of Power to Hydro Municipalities

Municipality	Interim rates at which power is billed to the municipality and adjusted to cost at the end of the year													
	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	
Milton..... <i>b</i>		28 00	28 00	28 00	28 00	28 00	28 00	28 00	28 00	28 00	32 00	32 00	32 00	
Milverton..... <i>d</i>					35 63	35 63	35 63	35 00	35 00	35 00	35 00	35 00	37 00	
Mimico..... <i>d</i>	30 74	30 00	28 00	28 00	28 00	27 00	27 00	25 00	21 00	21 00	26 00	30 00	30 00	
Mitchell..... <i>a</i>	38 00	37 00	37 00	37 00	37 00	36 00	36 00	36 00	36 00	36 00	37 00	37 00	37 00	
Moorefield..... <i>d</i>							63 93	63 00	70 00	70 00	70 00	75 00	75 00	
Mount Brydges..... <i>d</i>				46 56	46 56	46 56	46 56	50 00	70 00	70 00	76 00	70 00	60 00	
Mount Forest..... <i>d</i>					34 51	34 51	34 51	40 00	55 00	65 00	65 00	60 00	58 00	
Neustadt..... <i>d</i>								42 50	45 00	55 00	55 00	45 00	45 00	
Newbury..... <i>d</i>										67 10	67 10	67 10	58 00	
New Hamburg..... <i>d</i>	32 00	32 00	32 00	32 00	32 00	32 00	32 00	32 00	32 00	32 00	38 00	38 00	38 00	
New Toronto..... <i>d</i>			28 00	28 00	28 00	27 00	27 00	25 00	20 00	22 00	26 00	30 00	30 00	
Niagara Falls..... <i>b and d</i>					11 50	11 50	11 50	11 50	11 50	12 50	17 50	18 00	18 00	
Niagara-on-the-Lake..... <i>b</i>									28 00	28 00	26 00	26 00	26 00	
Norwich..... <i>d</i>	30 00	32 00	32 00	32 00	38 00	38 00	38 00	35 00	35 00	35 00	39 00	40 00	36 00	
Norwood..... <i>d</i>											38 00	38 00	35 00	
Oil Springs..... <i>d</i>							38 54	38 00	43 00	43 00	48 00	40 00	35 00	
Omamee..... <i>d</i>							39 39	39 39	39 39	39 39	39 39	35 00	35 00	
Orangeville..... <i>d</i>					35 00	35 00	35 00	35 00	55 00	65 00	65 00	60 00	60 00	
Ottawa..... <i>a</i>	15 00	15 00	15 00	14 00	14 00	14 00	14 00	14 00	14 00	13 50	13 00	12 00	12 00	
Otterville..... <i>d</i>					45 00	45 00	45 00	50 00	50 00	50 00	52 00	52 00	50 00	
Owen Sound..... <i>d</i>					31 00	31 00	31 00	28 00	28 00	30 00	40 00	35 00	35 00	
Paisley..... <i>d</i>												115 00	80 00	
Palmerston..... <i>d</i>					40 82	40 82	40 82	45 00	50 00	45 00	45 00	45 00	44 00	
Paris..... <i>a</i>			21 00	21 00	21 00	21 00	21 00	20 00	19 00	21 00	26 00	28 00	28 00	
Parkhill..... <i>d</i>									75 23	75 00	75 00	70 00	63 00	
Penetang..... <i>d</i>	28 80	26 50	26 50	26 50	26 50	22 00	22 00	22 00	32 00	30 00	30 00	30 00	27 00	
Perth..... <i>d</i>								32 00	32 00	45 00	45 00	45 00	47 50	
Peterboro..... <i>a</i>			18 00	18 00	17 70	17 70	17 50	17 50	17 50	17 50	22 50	22 50	22 50	
Petrolia..... <i>d</i>					36 26	36 26	36 26	36 00	36 00	36 00	36 00	36 00	36 00	
Plattsville..... <i>d</i>				49 27	49 27	49 27	49 27	60 00	65 00	65 00	75 00	90 00	90 00	
Pictou..... <i>d</i>								69 14	69 14	69 14	52 00	52 00	48 00	
Point Edward..... <i>d</i>												40 42	40 00	
Port Arthur..... <i>a</i>	20 30	19 50	22 25	22 71	20 75	20 75	19 75	19 75			21 00	21 00	21 00	
Port Colborne..... <i>a</i>									21 00	21 00	25 00	27 00	27 00	
Port Credit..... <i>d</i>	36 79	31 00	28 00	28 00	27 00	27 00	27 00	25 00	23 00	23 00	28 00	35 00	32 00	
Port Dalhousie..... <i>d</i>		22 30	21 42	22 49	24 31	25 81	24 85	21 56	17 00	17 00	22 00	24 00	26 00	
Port Dover..... <i>d</i>											62 00	60 00	45 00	
Port McNicoll..... <i>d</i>				35 00	35 00	25 00	25 00	35 00	85 00	85 00	40 00	30 00	28 00	
Port Perry..... <i>d</i>											90 00	90 00	70 00	
Port Stanley..... <i>d</i>	59 75	55 50	43 85	50 90	49 53	46 78	45 54	53 03	53 00	50 00	50 00	48 00	45 00	
Prescott..... <i>d</i>			39 59	28 67	25 00	25 00	25 00		44 93	55 00	52 00	45 00	40 00	
Preston..... <i>c</i>	25 00	21 50	21 00	21 00	20 00	19 00	19 00	19 00	19 00	22 00	27 00	27 00	27 00	
Priceville..... <i>d</i>											47 00	65 00	65 00	
Princeton..... <i>d</i>				65 95	65 95	65 95	65 95	70 00	85 00	90 00	90 00	75 00	75 00	
Queenston..... <i>d</i>											18 42	20 00	20 00	
Ridgetown..... <i>d</i>					47 17	47 17	47 17	47 00	47 00	45 00	45 00	45 00	40 00	
Ripley..... <i>d</i>											60 00	70 00	80 00	
Riverside..... <i>d</i>											52 75	45 00	40 00	
Rockwood..... <i>d</i>		38 00	38 00	38 00	38 00	38 00	38 00	38 00	55 00	55 00	65 00	60 00	55 00	
Rodney..... <i>d</i>						63 00	63 00	63 00	63 00	55 00	50 00	48 00	48 00	
St. Catharines..... <i>b</i>			14 00	14 00	14 00	14 00	14 00	14 00	14 00	14 00	18 25	20 00	20 00	
St. Clair Beach..... <i>d</i>											75 59	75 00	50 00	
St. George..... <i>d</i>				38 78	38 78	38 78	38 78	45 00	45 00	45 00	49 00	40 00	40 00	
St. Jacobs..... <i>d</i>						32 44	42 18	32 00	32 00	35 00	40 00	40 00	40 00	
St. Mary's..... <i>b</i>	38 00	29 50	29 50	29 50	28 00	28 00	28 00	28 00	28 00	32 00	32 00	35 00	35 00	
St. Thomas..... <i>b</i>	32 00	29 00	28 00	28 00	27 00	26 00	26 00	24 00	24 00	25 00	30 00	30 00	30 00	
Sandwich..... <i>d</i>			Serv	ed by	Win	dor								
Sarnia..... <i>a</i>					38 00	38 00	38 00	38 00	36 00	35 00	35 00	35 00	35 00	
Scarboro Twp..... <i>d</i>								25 00	25 00	28 00	35 00	35 00	33 00	
Seaforth..... <i>a</i>	41 00	40 00	40 00	40 00	40 00	38 00	38 00	38 00	36 00	36 00	40 00	40 00	40 00	
Shelburne..... <i>d</i>					30 00	30 00	30 00	30 00	38 00	50 00	50 00	50 00	45 00	
Simcoe..... <i>a</i>				35 00	35 00	35 00	35 00	32 00	28 00	28 00	34 00	34 00	31 00	
Smiths Falls..... <i>d</i>							28 00	28 00	28 00	40 00	40 00	40 00	40 00	
Springfield..... <i>d</i>						65 00	65 00	65 00	65 00	65 00	65 00	65 00	75 00	
Stamford Twp..... <i>b</i>							16 57	15 00	15 00	16 00	20 00	20 00	20 00	

Note a—Power delivered at 46,000, 26,400 or 22,000 volts.

Note b—Power delivered at 13,200 or 12,000 volts.

## "F"—Continued

## and Power Rates to Consumers

Power rates to consumers										
1923					1924					
Service charge per horsepower per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Prompt payment discount	Service charge per horsepower per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Maximum per horsepower per month net	Prompt payment discount
\$ c.	cents	cents	cents	%	5 c.	cents	cents	cents	cents	%
1.00	2.5	1.7	0.15	10	1.00	2.9	1.9	0.5	3.00	10
1.00	3.3	2.2	0.15	10	1.00	3.6	2.4	0.5	3.40	10
1.00	2.8	1.8	0.15	10	1.00	3.1	2.	0.5	3.10	10
1.00	3.6	2.4	0.15	10	1.00	3.6	2.4	0.15	...	10
1.00	7.1	4.7	0.15	10	1.00	6.8	4.6	0.5	5.25	10
1.00	6.1	4.1	0.15	10	1.00	5.6	3.8	0.5	4.60	10
1.00	4.2	2.8	0.15	10	1.00	3.9	2.6	0.5	3.60	10
1.00	4.9	3.3	0.15	10	1.00	4.2	2.8	0.5	3.70	10
1.00	8.1	5.4	0.15	10	1.00	7.1	4.7	0.5	5.45	10
1.00	3.6	2.4	0.15	10	1.00	3.9	2.6	0.5	3.60	10
1.00	2.2	1.5	0.15	10	1.00	2.	1.4	0.5	2.50	10
1.00	1.83	1.233	0.156	10 & 10	1.00	1.83	1.233	0.156	...	10 & 10
1.00	2.5	1.7	0.15	10	1.00	2.5	1.7	0.5	2.75	10
1.00	3.5	2.3	0.15	10	1.00	3.3	2.2	0.5	3.25	10
1.00	3.9	2.6	0.15	10	1.00	3.9	2.6	0.15	...	10
1.00	4.2	2.8	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	4.5	3.0	0.15	10	1.00	3.5	2.3	0.15	...	10
1.00	3.6	2.4	0.15	10	1.00	3.1	2.1	0.5	3.20	10
1.00	1.8	1.2	0.15	15 & 10	1.00	1.8	1.2	0.15	...	15 & 10
1.00	4.7	3.1	0.15	10	1.00	4.7	3.1	0.5	4.00	10
1.00	2.0	1.4	0.15	10	1.00	2.2	1.5	0.5	2.45	10 & 10
1.00	9.3	6.2	0.15	10	1.00	7.2	4.8	0.5	5.45	10
1.00	4.7	3.1	0.15	10	1.00	4.5	3.0	0.5	3.90	10
1.00	2.0	1.33	0.167	10 & 10	1.00	2.0	1.33	0.5	2.25	10 & 10
1.00	7.1	4.7	0.15	10	1.00	6.2	4.2	0.5	4.95	10
1.00	2.0	1.4	0.15	10	1.00	2.1	1.3	0.5	2.25	10 & 10
1.00	3.5	2.3	0.15	10	1.00	3.5	2.3	0.5	3.35	10
1.00	1.3	0.8	0.1	10 & 10	1.00	1.3	0.8	0.1	...	10 & 10
1.00	3.1	2.0	0.15	10	1.00	2.8	1.8	0.5	2.90	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.5	4.40	10
1.00	5.6	3.8	0.15	10	1.00	4.2	2.8	0.15	...	10
1.00	3.1	2.0	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	1.75	1.0	0.1	10	1.00	1.75	1.0	0.1	...	10
1.00	2.8	1.8	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	2.8	1.8	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	2.2	1.5	0.15	10	1.00	2.8	1.8	0.5	2.90	10
1.00	7.4	4.9	0.15	10	1.00	4.9	3.3	0.5	4.15	10
1.00	3.5	2.3	0.15	10	1.00	3.5	2.3	0.5	3.35	10
1.00	7.5	5.0	0.15	10	1.00	7.2	4.8	0.5	5.45	10
1.00	5.4	3.6	0.15	10	1.00	4.9	3.3	0.5	4.15	10
1.00	3.6	2.4	0.15	10	1.00	3.5	2.3	0.5	3.35	10
1.00	2.6	1.8	0.15	10	1.00	2.6	1.8	0.15	...	10
1.00	5.6	3.8	0.15	10	1.00	5.6	3.8	0.5	4.60	10
1.00	7.8	5.2	0.15	10	1.00	7.8	5.2	0.5	5.85	10
1.00	2.0	1.4	0.15	10	1.00	2.0	1.4	0.5	2.50	10
1.00	3.6	2.4	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	7.1	4.7	0.15	10	1.00	7.1	4.7	0.5	5.45	10
1.00	4.9	3.3	0.15	10	1.00	4.9	3.3	0.5	4.15	10
1.00	4.9	3.3	0.15	10	1.00	4.9	3.3	0.5	4.15	10
1.00	5.6	3.8	0.15	10	1.00	5.1	3.4	0.5	4.25	10
1.00	1.867	1.267	0.16	25 & 10	1.00	1.867	1.267	0.16	...	25 & 10
1.00	7.1	4.7	0.15	10	1.00	6.4	4.3	0.5	5.00	10
1.00	3.3	2.2	0.15	10	1.00	3.3	2.2	0.5	3.25	10
1.00	3.1	2.0	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	3.5	2.3	0.15	10	1.00	3.3	2.2	0.5	3.25	10
1.00	1.83	1.233	0.156	10 & 10	1.00	1.83	1.233	0.156	...	10 & 10
1.00	3.1	2.0	0.15	10	1.00	2.9	1.9	0.5	3.00	10
1.00	3.1	2.0	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	4.5	3.0	0.15	10	1.00	3.5	2.3	0.5	3.35	10
1.00	3.6	2.4	0.15	10	1.00	3.9	2.6	0.5	3.60	10
1.00	3.8	2.5	0.15	10	1.00	3.3	2.2	0.5	3.25	10
1.00	2.8	1.8	0.15	10	1.00	2.5	1.7	0.5	2.75	10
1.00	3.6	2.4	0.15	10	1.00	3.6	2.4	0.5	3.35	10
1.00	7.8	5.2	0.15	10	1.00	7.8	5.2	0.5	5.85	10
1.00	2.0	1.33	0.167	10 & 10	1.00	2.0	1.33	0.5	2.25	10 & 10

Note c—Power delivered at 6,600 volts.

Note d—Power delivered at 4,000 or 2,200 volts.



## STATEMENT

## Cost of Power to Hydro Municipalities

Municipality	Interim rates at which power is billed to the municipality and adjusted to cost at the end of the year												
	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Stayner.....d			37.82	37.82	37.82	35.00	35.00	35.00	40.00	40.00	45.00	40.00	38.00
Stouffville.....d												70.00	70.00
Stratford.....a	32.00	30.00	30.00	30.00	29.00	27.00	27.00	25.00	25.00	27.00	30.00	30.00	30.00
Strathroy.....b				44.07	44.07	44.07	44.01	42.00	40.00	37.00	40.00	40.00	38.00
Sunderland.....d				82.68	81.00	50.00	50.00	55.00	85.00	85.00	85.00	75.00	75.00
Sutton.....d												70.00	70.00
Tara.....d							37.00	37.00	85.00	90.00	90.00	90.00	93.00
Tavistock.....d						78.28	37.01	36.00	35.00	35.00	37.00	37.00	43.00
Tecumseh.....d											59.07	52.00	45.00
Teeswater.....d											40.00	50.00	50.00
Thamesford.....d			45.00	45.00	45.00	45.00	45.00	50.00	50.00	50.00	54.00	50.00	47.00
Thamesville.....d					45.40	45.40	45.40	50.00	60.00	55.00	55.00	50.00	50.00
Thedford.....d											110.00	110.00	80.00
Thorndale.....d			45.00	45.00	45.00	45.00	45.00	50.00	60.00	60.00	70.00	70.00	70.00
Thornton.....d							43.00	43.00	85.00	85.00	85.00	85.00	85.00
Thorold.....b											22.25	22.25	20.00
Tilbury.....d				39.45	39.45	39.45	39.45	45.00	50.00	50.00	50.00	45.00	40.00
Tillsonburg.....b	32.00	32.00	32.00	32.00	35.00	35.00	35.00	32.00	30.00	30.00	39.00	45.00	40.00
Toronto.....b	18.50	15.00	15.00	15.00	14.50	14.50	14.50	14.50	14.50	17.00	22.00	24.00	24.00
Toronto Twp.....d								25.00	25.00	25.00	30.00	30.00	30.00
Tottenham.....d							51.00	51.00	85.00	90.00	90.00	90.00	96.00
Uxbridge.....d											90.00	90.00	73.00
Vaughan Twp.....d											36.00	36.00	36.00
Victoria Harbour.....d				35.00	35.00	35.00	35.00	35.00	50.00	45.00	45.00	40.00	40.00
Walkerville.....a			38.00	38.00	38.00	38.00	38.00	36.00	36.00	35.00	35.00	33.00	33.00
Wallaceburg.....d				38.45	38.45	38.45	38.45	38.00	38.45	35.00	35.00	35.00	35.00
Wardsville.....d											82.20	82.20	77.00
Warkworth.....d												85.51	85.51
Waterdown.....d	37.50	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	31.00	36.00	36.00	40.00
Waterford.....d				39.00	39.00	39.00	39.00	39.00	33.00	33.00	38.00	35.00	34.00
Waterloo.....b	26.00	23.50	22.50	22.50	22.00	21.00	21.00	20.00	20.00	21.00	26.00	28.00	28.00
Watford.....d						59.45	59.45	65.00	85.00	85.00	85.00	70.00	60.00
Waubesaushene.....a				35.00	35.00	25.00	25.00	30.00	45.00	45.00	45.00	40.00	40.00
Welland.....b		14.50	14.00	14.00	14.00	14.00	14.00	14.00	14.00	16.00	20.00	23.00	23.00
Wellesley.....d						39.96	39.96	39.00	39.00	39.00	43.00	44.00	44.00
Wellington.....d								52.76	52.76	52.76	50.00	50.00	46.00
West Lorne.....d						55.60	55.60	55.00	55.00	50.00	45.00	40.00	40.00
Weston.....b	30.00	30.00	30.00	30.00	30.00	30.00	30.00	25.00	23.00	23.00	29.00	30.00	28.00
Wheatly.....d													91.00
Williamsburg.....d				25.09	30.00	30.00	30.00	30.00	50.00	73.89	95.00	75.00	65.00
Winchester.....d			38.28	39.54	43.00	43.00	43.00	43.00	69.84	85.00	85.00	65.00	60.00
Windsor.....a			38.00	38.00	38.00	38.00	38.00	36.00	36.00	35.00	35.00	33.00	30.00
Wingham.....d											45.00	55.00	59.00
Woodbridge.....d				33.83	33.83	33.83	33.83	33.00	31.00	31.00	37.00	38.00	36.00
Woodstock.....b	26.00	23.00	23.00	23.00	23.00	21.00	21.00	20.00	20.00	21.00	27.00	28.00	28.00
Woodville.....d				70.24	70.00	50.00	50.00	55.00	80.00	80.00	80.00	75.00	65.00
Wyoming.....d					38.34	38.34	38.34	38.00	60.00	60.00	60.00	62.00	62.00
York Twp.....d													
York East Twp.....d													
York North Twp.....d												35.00	35.00
Zurich.....d							69.34	69.00	60.00	60.00	74.00	74.00	68.00

Note a—Power delivered at 45,000, 26,400 or 22,000 volts.

Note b—Power delivered at 13,200 or 12,000 volts.

†Windsor rates for 60 cycle power are 25% higher than rates given here.

## "F"—Continued

## and Power Rates to Consumers

Power rates to consumers										
1923					1924					
Service charge per horsepower per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Prompt payment discount	Service charge per horsepower per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Maximum per horsepower per month net	Prompt payment discount
\$ c.	cents	cents	cents	%	\$ c.	cents	cents	cents	\$ c.	%
1.00	4.2	2.8	0.15	10	1.00	3.9	2.6	0.5	3.60	10
1.00	7.8	5.2	0.15	10	1.00	7.8	5.2	0.5	5.85	10
1.00	2.8	1.8	0.15	10	1.00	2.8	1.8	0.5	2.90	10
1.00	2.9	1.9	0.15	10	1.00	2.6	1.8	0.5	2.85	10
1.00	6.8	4.6	0.15	10	1.00	6.6	4.4	0.5	5.10	10
1.00	7.1	4.7	0.15	10	1.00	7.1	4.7	0.5	5.45	10
1.00	6.8	4.6	0.15	10	1.00	6.8	4.6	0.5	5.25	10
1.00	2.2	1.5	0.15	10	1.00	2.8	1.8	0.5	2.90	10
1.00	4.9	3.3	0.15	10	1.00	4.9	3.3	0.5	4.15	10
1.00	4.2	2.8	0.15	10	1.00	4.2	2.8	0.5	3.75	10
1.00	4.9	3.3	0.15	10	1.00	4.5	3.0	0.5	3.90	10
1.00	5.1	3.4	0.15	10	1.00	4.5	3.0	0.5	3.90	10
1.00	9.0	6.0	0.15	10	1.00	7.1	4.7	0.5	5.45	10
1.00	5.6	3.8	0.15	10	1.00	5.6	3.8	0.5	4.60	10
1.00	6.8	4.6	0.15	10	1.00	6.8	4.6	0.5	5.25	10
1.00	2.0	1.4	0.15	10	1.00	2.11	1.39	0.5	2.35	10 & 10
1.00	4.2	2.8	0.15	10	1.00	3.6	2.4	0.5	3.40	10
1.00	3.6	2.4	0.15	10	1.00	3.5	2.3	0.5	3.35	10
†A.C. 1.25 & 1.00	1.5	0.75	0.4	10	†A.C. 1.25 & 1.00	1.5	0.75	0.4	....	10
†D.C. 1.35 & 1.00	2.5	1.25	0.6	10	†D.C. 1.35 & 1.00	2.5	1.25	0.6	....	10
1.00	4.2	2.8	0.15	10	1.00	3.5	2.3	0.5	3.35	10
1.00	6.8	4.6	0.15	10	1.00	6.8	4.6	0.5	5.25	10
....	....	....	....	....	1.00	3.5	2.3	1.0	....	10
1.00	7.5	5.0	0.15	10	1.00	7.2	4.8	0.5	5.45	10
1.00	5.5	3.7	0.15	10	1.00	5.5	3.7	0.5	4.50	10
1.00	4.2	2.8	0.15	10	1.00	4.2	2.8	0.5	3.75	10
1.00	2.9	1.9	0.15	10	1.00	2.9	1.9	0.5	3.00	10
1.00	2.9	1.9	0.15	10	1.00	2.8	1.8	0.5	2.90	10
1.00	8.6	5.7	0.15	10	1.00	7.8	5.2	0.5	5.85	10
1.00	10.7	7.2	0.15	10	1.00	10.7	7.2	0.15	....	10
1.00	3.3	2.2	0.15	10	1.00	3.6	2.4	0.5	3.40	10
1.00	3.1	2.0	0.15	10	1.00	2.8	1.8	0.5	2.90	10
1.00	2.2	1.5	0.15	10	1.00	2.2	1.5	0.5	2.60	10
1.00	6.4	4.3	0.15	10	1.00	5.6	3.8	0.5	4.60	10
1.00	4.9	3.3	0.15	10	1.00	4.9	3.3	0.5	4.20	10
1.00	2.33	1.56	0.167	10 & 10	1.00	2.33	1.56	0.167	....	10 & 10
1.00	4.7	3.1	0.15	10	1.00	4.3	2.9	0.5	3.85	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.15	....	10
1.00	4.3	2.9	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	2.2	1.5	0.15	10	1.00	2.3	1.6	0.5	2.65	10
....	....	....	....	....	1.00	9.0	6.0	0.15	....	10
1.00	6.4	4.3	0.15	10	1.00	6.4	4.3	0.5	5.00	10
1.00	6.4	4.3	0.15	10	1.00	6.4	4.3	0.5	5.00	10
1.00	2.9	1.9	0.15	10	1.00	2.8	1.8	0.5	2.90	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.5	4.45	10
1.00	3.1	2.0	0.15	10	1.00	3.1	2.0	0.5	3.10	10
1.00	2.0	1.4	0.15	10	1.00	2.0	1.4	0.15	....	10
1.00	6.8	4.6	0.15	10	1.00	6.6	4.4	0.5	5.10	10
1.00	7.1	4.7	0.15	10	1.00	7.1	4.7	0.5	5.45	10
1.00	2.0	1.4	0.15	10	1.00	2.0	1.4	0.5	2.50	10
....	....	....	....	....	1.00	2.0	1.4	0.5	2.50	10
1.00	3.9	2.6	0.15	10	1.00	3.9	2.6	0.5	3.60	10
1.00	6.1	4.1	0.15	10	1.00	5.6	3.8	0.5	4.60	10

Note c—Power delivered at 6,600 volts.

Note d—Power delivered at 4,000 or 2,200 volts.

†1.25 and 1.35 for 1st 10 h.p. 1.00 for all additional h.p.

# STATEMENT

## Domestic Service and Commercial Lighting

Municipality	1923								
	Domestic service				Commercial light				Prompt payment discount
	Service charge per 100 sq. ft.	First 3 kw-hr per 100 sq. ft. per kw-hr.	All additional per kw-hr	Minimum net monthly bill	First 30 hr. per kw-hr	Next 70 hr. per kw-hr	All additional per kw-hr	Minimum net monthly bill	
	cents	cents	cents	\$ c.	cents	cents	cents	\$ c.	%
Acton.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Agincourt.....	3	5.5	2	1.00	11	5.5	1.1	1.00	10
Ailsa Craig.....	3	4	2	0.75	8	4	0.8	0.75	10
Alexandria.....	3	7	2	1.50	14	7	1.4	2.00	10
Alliston.....	3	6	2	1.00	12	6	1.2	1.00	10
Alvinston.....	3	8	2	1.50	16	8	1.6	1.50	10
Ancaster.....	3	5	2	0.75	10	5	1	0.75	10
Apple Hill.....	3	7	2	1.50	14	7	1.4	2.00	10
Arthur.....	3	8	2	1.50	16	8	1.6	1.50	10
Aylmer.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Ayr.....	3	3	1.5	1.00	6	3	0.6	1.00	10
Baden.....	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Barrie.....	3	2	1	0.75	4	2	0.4	0.75	10+10
Barton Twp.....	3	3	1.5	1.00	6	3	0.6	1.00	10
Beachville.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Beaverton.....	3	4	2	1.00	8	4	0.8	1.00	10
Beeton.....	3	6	2	1.50	12	6	1.2	1.50	10
Belle River.....	3	8	2	1.50	16	8	1.6	1.50	10
Blenheim.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Bloomfield.....	3	7	2	1.00	14	7	1.4	1.00	10
Blyth.....									
Bolton.....	3	6	2	1.00	12	6	1.2	1.00	10
Bothwell.....	3	4	2	1.00	8	4	0.8	1.00	10
Bradford.....	3	8	2	1.50	16	8	1.6	1.50	10
Brampton.....	3	2	1	0.75	4	2	0.4	0.75	10
Brantford.....	3	2	1	0.75	3.5	1.75	0.35	0.75	10
Brantford Twp....	3	3	1.5	1.00	6	3	0.6	1.00	10
Brechin.....	3	8	2	1.50	16	8	1.6	1.50	10
Bridgeport.....	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Brigden.....	3	6	2	1.00	12	6	1.2	1.00	10
Brockville.....	3	5	2	1.00	10	5	1	1.00	10
Brussels.....									
Bullock's Corners and Greenville..	3	4	2		8	4	0.8	1.00	10
Burford.....	3	6	2	1.25	12	6	1.2	1.25	10
Burgessville.....	3	5.5	2	0.75	11	5.5	1.1	0.75	10
Caledonia.....	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Cannington.....	3	4	2	1.25	8	4	0.8	1.25	10
Carleton Place....	3	4	2	1.00	8	4	0.8	1.00	10
Chatham.....	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Chatsworth.....	3	6	2	1.50	12	6	1.2	1.50	10
Chesley.....	3	5	2	1.00	10	5	1	1.00	10
Chesterville.....	3	6	2	1.50	12	6	1.2	1.50	10
Chippawa.....	3	3	1.5	1.00	6	3	0.6	1.00	10
Clifford.....									
Clinton.....	3	3	1.5	0.75	6	3	0.6	0.75	10



" G "

## Rates in Hydro Municipalities

1924								
Domestic service				Commercial light				Prompt payment discount
Service charge per month	First 60 kw-hr. per month per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	First 50 hr. per kw-hr.	Next 50 hr. per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	
cents	cents	cents	\$ c.	cents	cents	cents	\$ c.	%
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	5	2.5	1.00	10	5	1	1.00	10
33	4	2	0.75	8	4	1	0.75	10
33	6	2	1.50	12	6	1.2	2.00	10
33	5	2	1.00	10	5	1	1.00	10
33	6	2	1.50	12	6	1.2	1.50	10
33	5	2	0.75	10	5	1	0.75	10
33	6	2	1.50	12	6	1.2	2.00	10
33	6	2	2.00	12	6	1.2	1.50-3.00	10
33	2	1	0.75	4	2	1	.75	10
33	2.5	1.25	1.00	5	2.5	1	1.00	10
33	2	1	0.75	4	2	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10+10
33	3	1.5	Same rates as in 1923	6	3	1	0.75	10
33	3	1.5	1.00	6	3	1	1.00	10
33	5	2	1.50	10	5	1	1.50	10
33	6	2	1.50	12	6	1.2	1.50	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	7	2	2.50	14	7	1.4	2.50	10
33	5	2	1.00	10	5	1	1.00	10
33	3	1.5	1.00	6	3	1	1.00	10
33	7	2	1.50	14	7	1.4	1.50	10
33	2	1	0.75	4	2	1	0.75	10
33	3	1.5	Same rates as in 1923	6	3	1	1.00	10
33	7	2	1.50	14	7	1.4	1.50	10
33	5	2	Same rates as in 1923	10	5	1	1.50	10
33	3	1.5	.75	6	3	1	.75	10
33	6	2	2.50	12	6	1.2	2.50	10
33	5	2	Same rates as in 1923	10	5	1	1.25	10
33	5	2	1.00	10	5	1	1.00	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	3	1.5	1.25	6	3	1	1.25	10
33	4	2	1.00	8	4	1	1.00	10
33	2.5	1.25	0.75	4	2	1	0.75	10
33	5	2	1.50	10	5	1	1.50	10
33	4	2	1.00	8	4	1	1.00	10
33	4	2	1.25	8	4	1	1.25	10
33	2.5	1.25	1.00	5	2.5	1	1.00	10
33	6	2	2.50	12	6	1.2	2.50	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10

# STATEMENT

## Domestic Service and Commercial Lighting

Municipality	1923								
	Domestic service				Commercial light				Prompt payment discount
	Service charge per 100 sq. ft.	First 3 kw-hr. per 100 sq. ft. per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	First 30 hr. per kw-hr.	Next 70 hr. per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	
	cents	cents	cents	\$ c.	cents	cents	cents	\$ c.	%
Coldwater.....	3	4	2	1.00	8	4	0.8	1.00	10
Collingwood.....	3	2	1	0.75	4	2	0.4	0.75	10
Comber.....	3	5	2	1.25	10	5	1	1.25	10
Cookstown.....	3	6	2	1.50	12	6	1.2	1.50	10
Courtright.....	3	8	2	2.75	16	8	1.6	2.75	10
Creemore.....	3	4	2	1.00	8	4	0.8	1.00	10
Dashwood.....	3	7	2	1.25	14	7	1.4	1.25	10
Delaware.....	3	6	2	1.25	12	6	1.2	1.25	10
Dereham Twp.....				Rural	Rates				
Dorchester.....	3	4	2	0.75	8	4	0.8	0.75	10
Drayton.....	3	6	2	1.25	12	6	1.2	1.25	10
Dresden.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Drumbo.....	3	5	2	1.00	10	5	1	1.00	10
Dublin.....	3	5	2	1.50	12	6	1.2	1.50	10
Dundalk.....	3	4	2	1.00	8	4	0.8	1.00	10
Dundas.....	3	2	1	0.75	5	2.5	0.5	0.75	10
Dunnville.....	3	4	2	0.75	8	4	0.8	0.75	10
Durham.....	3	4	2	1.00	8	4	0.8	1.00	10
Dutton.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Elmira.....	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Elmvale.....	3	3	1.5	1.00	6	3	0.6	1.00	10
Elmwood.....	3	5	2	1.25	10	5	1	1.25	10
Elora.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Embro.....	3	6	2	1.50	12	6	1.2	1.50	10
Erieau.....		7.5	2	1B 1.90 1C 3.38		7.5	2.0	1B 1.90 1C 3.38	10
Essex.....	3	7	3.5	0.75	14	7	1.4	0.75	10
Etobicoke Twp...	3	4	2	0.75	8	4	0.8	0.75	10
Exeter.....	3	3.5	1.75	0.75	7	3.5	0.7	0.75	10
Fergus.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Flesherton.....	3	4	2	1.50	8	4	0.8	1.50	10
Ford City.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Forest.....	3	5	2	1.00	10	5	1	1.00	10
Forest Hill.....									
Galt.....	3	2	1	0.75	4	2	0.4	0.75	10
Gamebridge.....	3+50c.	8	2	1.50	16	8	1.6	1.50	10
Georgetown.....	3	2	1	0.75	4	2	0.4	0.75	10
Glencoe.....	3	5	2	1.00	10	5	1	1.00	10
Glen Williams, ext.	3	4	2	0.75	8	4	0.8	0.75	10
Goderich.....	3	3.5	1.75	0.75	7	3.5	0.7	0.75	10
Grand Valley.....	3	6	2	1.25	12	6	1.2	1.25	10
Grantham Twp....				Rural	Rates				
Granton.....	3	4	2	1.00	8	4	0.8	1.00	10
Gravenhurst.....	3	3.5	1.75	1.00	7	3.5	0.7	1.00	10
Guelph.....	3	2	1	0.75	4	2	0.4	0.75	10
Hagersville.....	3	2	1	0.75	4	2	0.4	0.75	10

†Next 70 hrs. per kw-hr.



# STATEMENT

## Domestic Service and Commercial Lighting

Municipality	1923								
	Domestic service				Commercial light				Prompt payment discount
	Service charge per 100 sq. ft.	First 3 kw-hr. per 100 sq. ft. per kw-hr	All additional per kw-hr	Minimum net monthly bill	First 30 hr. per kw-hr	Next 70 hr. per kw-hr	All additional per kw-hr	Minimum net monthly bill	
	cents	cents	cents	\$ c.	cents	cents	cents	\$ c.	%
Hamilton.....	3	2	1	0.75	3.5	1.75	0.35	0.75	10
Hanover.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Harriston.....	3	4	2	1.00	8	4	0.8	1.00	10
Harrow.....	3	6.5	3.25	0.75	13	6.5	1.3	0.75	10
Havelock.....	3	5.5	2	0.75	11	5.5	1.1	0.75	10
Hensall.....	3	6	2	1.25	12	6	1.2	1.25	10
Hespeler.....	3	2.5	1.25	1.00	5	2.5	0.5	0.75	10
Highgate.....	3	5	2	1.00	10	5	1	1.00	10
Holstein.....	3	9	2	1.50	18	9	1.8	1.50	10
Horning's Mills...	3	7	2	1.50	14	7	1.4	1.50	10
Humberstone.....									
Huntsville.....	3	6	2	1.00	12	6	1.2	1.00	10
Ingersoll.....	3	2	1	0.75	4	2	0.4	0.75	10
Jarvis.....	3	6	2	1.50	12	6	1.2	1.50	10
Kemptville.....	3	6	2	1.50	12	6	1.2	2.00	10
Kincardine.....	3	6	2	1.50	12	6	1.2	1.50	10
Kingston.....	3	3	1.5	0.75	6	3	1	0.75	10
Kingsville.....	3	6.5	3.25	0.75	13	6.5	1.3	0.25	10
Kirkfield.....	3	5	2	1.50	10	5	1	1.50	10
Kitchener.....	3	2	1	0.75	4	2	0.4	0.75	10
Lakefield.....	3	5.5	2	1.00	11	5.5	1.1	1.00	10
Lambeth.....	3	5	2	1.25	10	5	1	1.25	10
Lanark.....	3	7	2	1.50	14	7	1.4	2.00	10
Lancaster.....	3	8	2	1.75	16	8	1.6	2.50	10
Leamington.....	3	7	3.5	0.75	14	7	1.4	0.75	10
Listowel.....	3	3	1.5	0.75	6	3	0.6	0.75	10
London.....	3	2	1	0.75	4	2	0.4	0.75	10
London Twp. V.A..	6	4	2	1.00	8	4	0.8	1.00	10
Lucan.....	3	4	2	0.75	8	4	0.8	0.75	10
Lucknow.....	3	6	2	1.50	12	6	1.2	1.50	10
Lynden.....	3	4	2	1.25	8	4	0.8	1.25	10
Markdale.....	3	3	1.5	1.00	6	3	0.6	1.00	10
Markham.....	3	6	2	1.00	12	6	1.2	1.00	10
Marmora.....	3	6	2	1.00	12	6	1.2	1.00	10
Martintown.....	3	7	2	1.50	14	7	1.4	2.00	10
Maxville.....	3	8	2	1.50	16	8	1.6	2.00	10
Meaford.....	3	6	2	1.50	12	6	1.2	1.50	10
Merlin.....	3	8	2	1.80	16	8	1.6	2.25	10
Merritton.....	3	2	1	0.75	4	2	0.4	0.75	10
Midland.....	3	2	1	0.75	4	2	0.4	0.75	10
Milton.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Milverson.....	3	3.5	1.75	0.75	7	3.5	0.7	0.75	10
Mimico.....	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Mitchell.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Moorefield.....	3	7	2	1.50	14	7	1.4	1.50	10

## "G"—Continued

## Rates in Hydro Municipalities

1924								
Domestic service				Commercial light				Prompt payment discount
Service charge per month	First 60 kw-hr. per month per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	First 50 hr. per kw-hr.	Next 50 hr. per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	
cents	cents	cents	\$ c.	cents	cents	cents	\$ c.	%
33	3	1.5	0.75	rates as in 1923	3	1	0.75	10
33	3	1.5	1.00	6	3	1	1.00	10
			Same	rates as in 1923				
			Same	rates as in 1923				
33	5	2	1.25	10	5	1	1.25	10
33	2	1	1.00	4	2	1	0.75	10
33	4	2	1.00	8	4	1	1.00	10
			Same	rates as in 1923				
33	7	2	1.50	14	7	1.4	1.50	10
33	3.0	1.5	0.75	6	3	1.0	0.75	10
33	5	2	1.00	10	5	1	1.00	10
			Same	rates as in 1923				
			Same	rates as in 1923				
33	4	2	1.25	8	4	1	1.50	10
33	5	2	1.50	10	5	1	1.50	10
			Same	rates as in 1923				
			Same	rates as in 1923				
33	4	2	1.50	8	4	1	1.50	10
			Same	rates as in 1923				
33	4	2	1.25	8	4	1	1.25	10
33	6	2	1.50	12	6	1.2	2.00	10
33	8	2	1.75	16	8	1.6	2.50	10
			Same	rates as in 1923				
33	2	1	0.75	4	2	1	0.75	10
			Same	rates as in 1923				
			Same	rates as in 1923				
33	3	1.5	0.75	6	3	1	0.75	10
			Same	rates as in 1923				
33	3	1.5	1.25	6	3	1	1.25	10
33	2.5	1.25	1.00	5	2.5	1	1.00	10
33	5	2	1.00	10	5	1	1.00	10
			Same	rates as in 1923				
33	7	2	1.50	14	7	1.4	2.00	10
33	8	2	1.50	16	8	1.6	2.00	10
33	5	2	1.50	10	5	1	1.50	10
33	6	2	1.50	12	6	1.2	2.00	10
			Same	rates as in 1923				
33	2	1	0.75	4	2	1	0.75	10
33	3	1.5	0.75	6	3	1	0.75	10
33	3	1	0.75	6	3	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
			Same	rates as in 1923				
33	6	2	1.50	12	6	1.2	1.50	10

# STATEMENT

## Domestic Service and Commercial Lighting

Municipality	1923								
	Domestic service				Commercial light				Prompt payment discount
	Service charge per 100 sq. ft.	First 3 kw-hr. per 100 sq. ft. per kw-hr	All additional per kw-hr	Minimum net monthly bill	First 30 hr. per kw-hr	Next 70 hr. per kw-hr	All additional per kw-hr	Minimum net monthly bill	
	cents	cents	cents	\$ c.	cents	cents	cents	\$ c.	%
Mount Brydges....	3	5	2	1.25	10	5	1	1.25	10
Mount Forest.....	3	4	2	1.00	8	4	0.8	1.00	10
Neustadt.....	3	6	2	1.50	12	6	1.2	1.50	10
Newbury.....	3	8	2	1.00	16	8	1.6	1.00	10
New Hamburg.....	3	3	1.5	0.75	6	3	0.6	0.75	10
New Toronto.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Niagara Falls.....	3	2	1	0.75	4	2	0.4	0.75	10
Niagara-on-the Lake.....	3	2	1	0.75	4	2	0.4	0.75	10
Norwich.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Norwood.....	3	5	2	0.75	10	5	1	0.75	10
Oil Springs.....	3	5	2	1.00	10	5	1	1.00	10
Omemece.....	3	4	2	1.00	8	4	0.8	1.00	10
Orangeville.....	3	4	2	1.00	8	4	1	1.00	10
Ottawa.....	3	2	1.5	0.75	5	2.2	0.5	0.75	10
Otterville.....	3	4	2	1.00	8	4	0.8	1.00	10
Owen Sound.....	3	2	1	0.75	4	2	0.4	0.75	10
Paisley.....	3	8	2	2.00	16	8	1.6	1.50 to 3.00	10
Palmerston.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Paris.....	3	2	1	0.75	4	2	0.4	0.75	10
Parkhill.....	3	5	2	1.25	10	5	1	1.25	10
Penetang.....	3	3	1.5	1.00	6	3	0.6	1.00	10
Perth.....	3	4	2	1.00	8	4	0.8	1.00	10
Peterboro'.....	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Petrolia.....	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Plattsville.....	3	6	2	1.50	12	6	1.2	1.50	10
Picton.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Point Edward.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Port Arthur.....	3	2	1	0.75	5	2.5	0.5	0.75	10
Port Colborne.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Port Credit.....	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Port Dalhousie....	3	4	2	0.75	8	4	0.8	0.75	10
Port Dover.....	3	6	2	1.25	12	6	1.2	1.25	10
Port McNicoll....	3	4	2	1.25	8	4	0.8	1.25	10
Port Perry.....	3	8	2	2.00	16	8	1.6	1.00 to 2.00	10
Port Stanley.....	3	4	2	0.75	8	4	0.8	0.75	10
Prescott.....	3	3	1.5	1.00	6	3	0.6	1.00	10
Preston.....	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Priceville.....	3	8	2	1.50	16	8	1.6	1.50	10
Princeton.....	3	6	2	1.50	12	6	1.2	1.50	10
Queenston.....	3	3	1.5	1.25	6	3	0.6	1.25	10



## "G"—Continued

## Rates in Hydro Municipalities

1924								
Domestic service				Commercial light				Prompt payment discount
Service charge per month	First 60 kw-hr. per month per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	First 50 hr. per kw-hr.	Next 50 hr. per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	
cents	cents	cents	\$ c.	cents	cents	cents	\$ c.	%
33	4	2	1.25	8	4	1	1.25	10
33	3	1.5	1.00	6	3	1	1.00	10
33	6	2	1.50	12	6	1.2	1.50	10
33	6	2	1.00	12	6	1.2	1.00	10
33	2	1	0.75	4	2	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
33	4	2	1.00	8	4	1	1.00	10
33	3.5	1.75	1.00	7	3.5	1	1.00	10
33	3	1.5	1.00	6	3	1	1.00	10
33	2	1	0.75	4	2	1	0.75	10
33	7	2	2.00	14	7	1.4	1.50 to 3.00	10
33	2	1	0.75	4	2	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
33	4	2	1.00	8	4	1	1.00	10
33	2	1	0.75	4	2	1	0.75	10
33	3	1.5	0.75	6	3	1	0.75	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	5	2	1.50	10	5	1	1.50	10
33	3	1.5	0.75	6	3	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
33	3	1.5	0.75	6	3	1	0.75	10
33	4	2	1.25	8	4	1	1.25	10
33	3	1.5	1.00	6	3	1	1.00	10
33	6	2	1.50	2	6	1.2	1.00 to 1.50	10
33	3	1.5	0.75	6	3	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
33	7	3.5	1.50	14	7	1.4	1.50	10
33	5	2	1.50	10	5	1	1.50	10
33	2.5	1.25	1.25	5	2.5	1	1.25	10

# STATEMENT

## Domestic Service and Commercial Lighting

Municipality	1923								
	Domestic service				Commercial light				Prompt payment discount
	Service charge per 100 sq. ft.	First 3 kw-hr. per 100 sq. ft. per kw-hr	All additional per kw-hr	Minimum net monthly bill	First 30 hr. per kw-hr	Next 70 hr. per kw-hr	All additional per kw-hr	Minimum net monthly bill	
	cents	cents	cents	\$ c.	cents	cents	cents	\$ c.	%
Ridgetown.....	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Ripley.....	3	7.5	2	1.50	15	7.5	1.5	1.50	10
Riverside.....	3	5	2	1.25	10	5	1	1.25	10
Rockwood.....	3	3	1.5	1.00	6	3	0.6	1.00	10
Rodney.....	3	4	2	0.75	8	4	0.8	0.75	10
St. Catharines....	3	2	1	0.75	3.5	1.75	0.35	0.75	10
St. Clair Beach....	3	7	2	2.00	14	7	1.4	2.00	10
St. George.....	3	3	1.5	0.75	6	3	0.6	0.75	10
St. Jacobs.....	3	4	2	1.00	8	4	0.8	1.00	10
St. Marys.....	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
St. Thomas.....	3	2	1	0.75	4	2	0.4	0.75	10
Sandwich.....	3	4	2	0.75	8	4	0.8	0.75	10
Sarnia.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Scarboro Twp.....	3	4	2	0.75	8	4	0.8	0.75	10
Seaforth.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Shelburne.....	3	5	2	1.25	10	5	1	1.25	10
Simcoe.....	3	2	1	0.75	4	2	0.4	0.75	10
Smiths Falls.....	3	5	2	1.00	10	5	1	1.00	10
Springfield.....	3	6	2	1.00	12	6	1.2	1.00	10
Stamford Twp.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Stayner.....	3	4	2	1.00	8	4	0.8	1.00	10
Stouffville.....	3	8	2	1.00	16	8	1.6	1.00	10
Stratford.....	3	2	1	0.75	4	2	0.4	0.75	10
Strathroy.....	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Sunderland.....	3	6	2	1.25	12	6	1.2	1.25	10
Sutton.....	3	8	2	1.00	16	8	1.6	1.00	10
Tara.....	3	8	2	1.50	16	8	1.6	1.50 to 3.00	10
Tavistock.....	3	2.5	1.25	1.00	5	2.5	0.5	1.00	10
Tecumseh.....	3	5	2	1.50	10	5	1	1.50	10
Teeswater.....	3	5	2	1.50	10	5	1	1.50	10
Thamesford.....	3	5	2	1.00	10	5	1	1.00	10
Thamesville.....	3	4	2	1.00	8	4	0.8	1.00	10
Thedford.....	3	8	2	1.50	16	8	1.6	1.50	10
Thorndale.....	3	6	2	1.25	12	6	1.2	1.25	10
Thornton.....	3	7	2	1.50	14	7	1.4	1.50	10
Thorold.....	3	2	1	0.75	5	2	0.5	0.75	10
Tilbury.....	3	4	2	1.00	8	4	0.8	1.00	10
Tillsonburg.....	3	2.5	1.25	0.75	5	2.5	0.5	0.75	10
Toronto.....	3	2	1	0.75	5	3	1	0.75	10
Toronto Twp.....	1.50	4	2						

## "G"—Continued

## Rates in Hydro Municipalities

1924								
Domestic service				Commercial light				Prompt payment discount
Service charge per month	First 60 kw-hr. per month per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	First 50 hr. per kw-hr.	Next 50 hr. per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	
cents	cents	cents	\$ c.	cents	cents	cents	\$ c.	%
33	2	1	0.75	4	2	1	0.75	10
33	7.5	2	2.00	15	7.5	1.5	2.00	10
33	4	2	1.25	8	4	1	1.25	10
33	2	1	1.00	4	2	1	1.00	10
33	3	1.5	0.75	6	3	1	0.75	10
33	6	2	Same rates as in 1923	12	6	1.2	2.00	10
33	2	1	0.75	4	2	1	0.75	10
33	3	1.5	1.00	6	3	1	1.00	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	3	1.5	Same rates as in 1923	6	3	1	0.75	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	3	1.5	0.75	6	3	1	0.75	10
33	3	1.5	0.75	6	3	1	0.75	10
33	4	2	1.00	8	4	1	1.00	10
33	2	1	0.75	4	2	1	0.75	10
33	4	2	1.00	8	4	1	1.00	10
33	5	2	1.00	10	5	1	1.00	10
33	2.5	1.25	0.75	.5	2.5	1	0.75	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	6	2	1.00	12	6	1.2	1.00	10
33	2.5*	1.25	0.75	5	2.5†	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
33	5	2	1.25	10	5	1	1.25	10
33	6	2	1.00	12	6	1.2	1.00	10
33	7	2	1.50	14	7	1.4	1.50 to 3.00	10
33	2.5	1.25	1.00	5	2.5	1	1.00	10
33	5	2	1.50	10	5	1	1.50	10
33	5	2	1.50	10	5	1	1.50	10
33	4	2	1.00	8	4	1	1.00	10
33	3	1.5	1.00	6	3	1	1.00	10
33	6	2	1.50	12	6	1.2	1.50	10
33	5	2	1.25	10	5	1	1.25	10
33	6	2	1.50	12	6	1.2	1.50	10
33	2	1	0.75	4	2	1	0.75	10
33	3	1.5	1.00	6	3	1	1.00	10
33	2	1	0.75	4	2	1	0.75	10
75	4	2	Same rates as in 1923	8	4	1	1.00	10

\*First 90 kw-hrs. per month.

†Next 100 hrs. per kw-hr.



# STATEMENT

## Domestic Service and Commercial Lighting

Municipality	1923								
	Domestic service				Commercial light				Prompt payment discount
	Service charge per 100 sq. ft.	First 3 kw-hr. per 100 sq. ft. per kw-hr	All additional per kw-hr	Minimum net monthly bill	First 30 hr. per kw-hr	Next 70 hr. per kw-hr	All additional per kw-hr	Minimum net monthly bill	
	cents	cents	cents	\$ c.	cents	cents	cents	\$ c.	%
Tottenham.....	3	7	2	1.50	14	7	1.4	1.50	10
Trafalgar Twp.....	3+1.00	5	2	2.00	10+1.00	5	1	2.00	10
Uxbridge.....	3	8	2	2.00	16	8	1.6	1.00 to 2.00	10
Vaughan Twp.....				Rural	Rates				
Victoria Harbor...	3	4	2	1.00	8	4	0.8	1.00	10
Walkerville.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Wallaceburg.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Wardsville.....	3	8	2	1.50	16	8	1.6	1.50	10
Warkworth.....	3	8	2	2.00-3.15	16	8	1.6	2.00-3.15	10
Waterdown.....	3	2	1	0.75	4	2	0.4	0.75	10
Waterford.....	3	2	1	0.75	4	2	0.4	0.75	10
Waterloo.....	3	2	1	0.75	4	2	0.4	0.75	10
Watford.....	3	5	2	1.00	10	5	1	1.00	10
Waubashene.....	3	4	2	1.00	8	4	0.8	1.00	10
Welland.....	3	2	1	0.75	4	2	0.4	0.75	10
Wellesley.....	3	4	2	1.00	8	4	0.8	1.00	10
Wellington.....	3	6	2	1.00	12	6	1.2	1.00	10
West Lorne.....	3	4	2	0.75	8	4	0.8	0.75	10
Weston.....	3	2	1	0.75	4	2	0.4	0.75	10
Wheatley.....	3	9	2	2.00	18	9	1.8	2.00	10
Williamsburg.....	3	5	2	1.50	10	5	1	1.50	10
Winchester.....	3	5	2	1.25	10	5	1	1.25	10
Windsor.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Wingham.....	3	5	2	1.00	10	5	1	1.00	10
Woodbridge.....	3	3	1.5	0.75	6	3	0.6	0.75	10
Woodstock.....	3	2	1	0.75	4	2	0.4	0.75	10
Woodville.....	3	6	2	1.25	12	6	1.2	1.25	10
Wyoming.....	3	6	2	1.00	12	6	1.2	1.00	10
York Twp.....	3	3	1.5	0.75	6	3	0.6	0.75	10
York E. Twp.....	3	3	1.5	0.75	6	3	0.6	0.75	10
York N. Twp.....	3	6	2	1.00	12	6	1.2	1.00	10
Zurich.....	3	5	2	1.25	10	5	1	1.25	10

## "G"—Concluded

## Rates in Hydro Municipalities

1924								
Domestic service				Commercial light				Prompt payment discount
Service charge per month	First 60 kw-hr. per month per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	First 50 hr. per kw-hr.	Next 50 hr. per kw-hr.	All additional per kw-hr.	Minimum net monthly bill	
cents	cents	cents	\$ c.	cents	cents	cents	\$ c.	%
33	6	2	1.50	12	6	1.2	1.50	10
			Same	rates as in 1923				
33	6	2	1.50	12	6	1.2	1.00 to 1.50	10
			Rural	Rates				
33	3	1.5	1.00	6	3	1	1.00	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	6	2	1.50	12	6	1.2	1.50	10
			Same	rates as in 1923				
33	2	1	0.75	4	2	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
33	4	2	1.00	8	4	1	1.00	10
33	3	1.5	1.00	6	3	1	1.00	10
			Same	rates as in 1923				
33	3	1.5	1.00	6	3	1	1.00	10
			Same	rates as in 1923				
33	3	1.5	0.75	6	3	1	0.75	10
33	2	1	0.75	4	2	1	0.75	10
			Same	rates as in 1923				
33	4	2	1.50	8	4	1	1.50	10
33	3	1.5	1.00	6	3	1	1.00	10
33	2.5	1.25	0.75	5	2.5	1	0.75	10
33	5	2	1.00	10	5	1	1.00	10
33	2	1	0.75	4	2	1	0.75	10
			Same	rates as in 1923				
33	5	2	1.25	10	5	1	1.25	10
33	5	2	1.00	10	5	1	1.00	10
33	3	1.5	0.75	6	3	1	0.75	10
33	3	1.5	0.75	6	3	1	0.75	10
33	5	2	1.00	10	5	1	1.00	10
33	4	2	1.25	8	4	1	1.25	10





# APPENDIX I

## ACTS

Chapter 23, 1924.

### An Act to amend The Power Commission Act.

*Assented to 17th April, 1924.*

**H**IS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:—

**1.** This Act may be cited as *The Power Commission Act, 1924*. Short title.

**2.** Subsection 1 of section 5 of *The Power Commission Act*, as re-enacted by section 2 of *The Power Commission Act, 1915*, is repealed. Rev. Stat. c. 39, s. 5, subs. 1, (1915, c. 19, s. 2), repealed.

**3.** Section 6e of *The Power Commission Act*, as enacted by section 4 of *The Power Commission Act, 1918*, is amended by adding at the end thereof the words "or in securities guaranteed by the Province of Ontario." Rev. Stat. c. 39, s. 6e (1918, c. 14, s. 4), amended.

**4.** *The Power Commission Act* is amended by adding thereto the following section: Rev. Stat. c. 39, amended.

**9a** In the exercise of the powers conferred and in carrying out any work authorized by this Act or any other general or special Act, the Commission has and always has had authority to carry its wires along, upon, under and across any public highway or street, and to erect poles and put down conduits and all other structures necessary for that purpose, and to take down, remove, or take up the same without taking any of the proceedings prescribed by this Act for the taking of land without the consent of the owner thereof, and the provisions of this Act with regard to compensation for lands so taken shall not apply, but the location of any poles, conduits, lines or other structures of the Commission to be hereafter erected, put down or constructed upon a highway shall be agreed upon by the Commission and the municipal corporation or other authority having control of the highway, or in case of disagreement shall be determined by the Ontario Railway and Municipal Board. Powers of Commission.

Where by reason of improvements or alteration on a highway, work becomes necessary on the poles, wires, conduits, transformers or any other structure of the Commission, such work shall be done by the Commission and the cost thereof and all services rendered in connection therewith as certified by the auditor of the Commission shall be borne equally by the Commission and the municipal corporation, board, or other authority having control of the highway.

Rev. Stat.  
c. 39, s. 15,  
(1918, c. 14,  
s. 7),  
amended.

5. Subsection 1 of section 15 of *The Power Commission Act* as enacted by section 7 of *The Power Commission Act, 1918*, is amended by inserting after the words "securities of" in the fourth line the words "or guaranteed by."

Rev. Stat.  
c. 39, s. 19a,  
subs. 1,  
(1917, c. 20,  
s. 8),  
amended.

6. Clause *a* of subsection 1 of section 19a of *The Power Commission Act*, as enacted by section 8 of *The Power Commission Act, 1917*, is amended by adding after the word "constructing" in the second line the words "acquiring, reconstructing, extending."

Rev. Stat.  
c. 39, s. 19a,  
subs. 2,  
(1917, c. 20,  
s. 8),  
repealed.

7. Subsection 2 of section 19a of *The Power Commission Act*, as enacted by section 8 of *The Power Commission Act, 1917*, is repealed and the following substituted therefor:

Sectional  
township  
by-law.

(2) The council of a township by by-law may from time to time set apart a portion of the township as to which any of the by-laws passed under subsection 1 may have effect and may submit the by-law for the establishment of such works or for entering into such contract to the municipal electors qualified to vote on money by-laws in the portion of the township so set apart.

Enlarging,  
altering or  
varying  
section.

(2a) The council with the approval of the Commission may from time to time enlarge, alter or vary the boundaries of any such area or incorporate with it any other such area.

Rev. Stat.  
c. 39, s. 19a,  
subs. 3,  
(1917, c. 20,  
s. 8),  
amended.

8. Subsection 3 of section 19a of *The Power Commission Act*, as enacted by section 8 of *The Power Commission Act, 1917*, is amended by adding after the words "subsection 2" the words "or subsection 2a" and by adding at the end of the said subsection the words "or as enlarged, altered or varied and notwithstanding anything contained in *The Consolidated Municipal Act, 1922*, or in any other Act it shall not be necessary to obtain the assent of the electors to the by-law for the issue of such debentures."

Rev. Stat.  
c. 39, s. 19a,  
subs. 4,  
(1917, c. 20,  
s. 8),  
amended.

9. Subsection 4 of section 19a of *The Power Commission Act*, as enacted by section 8 of *The Power Commission Act, 1917*, and amended by section 3 of *The Power Commission Act, 1922*, is further amended by striking out the words "for the district so set apart" in the third and fourth lines, and by striking out the words "shall be residents of such district" in the sixth and seventh lines, and inserting in lieu thereof the words "shall be residents of the district so set apart or as enlarged, altered or varied."

**10.** The clause lettered *c* in section 23 of *The Power Commission Act* as amended by section 4 of *The Power Commission Act, 1914*, section 11 of *The Power Commission Act, 1915*, section 11 of *The Power Commission Act, 1918*, and section 3 of *The Power Commission Act, 1919*, is further amended by striking out the words and figures "and such sum not exceeding \$15,000 per annum as the Lieutenant-Governor in Council may direct to be paid to the chairman and other members of the Commission as remuneration for their services in addition to any sum payable to them out of the Consolidated Revenue Fund" and inserting in lieu thereof, the words and figures, "and such sum not exceeding \$45,000 per annum as the Lieutenant-Governor in Council may direct to be paid to the chairman and other members of the Commission as remuneration for their services, including the services of any member of the Commission as director or otherwise in connection with a company owned or controlled by the Commission, or the capital stock or assets of which have been acquired by the Commission." Rev. Stat.  
c. 39, s. 23,  
cl. c,  
amended.

**11.—(1)** Section 23*b* of *The Power Commission Act* as enacted by section 13 of *The Power Commission Act, 1918*, is amended by adding at the end thereof the words "and the Commission from time to time on such conditions as may be deemed equitable or advisable may include in any such system one or more other such municipalities whether already part of any system or not or may unite any two or more systems in one system and may join in a system two or more such municipalities whether already part of any system or not and for the purposes of this section a portion set apart under section 19*a* or a rural power district may be considered as a municipality." Rev. Stat.  
c. 39, s. 23*b*,  
(1918, c. 14,  
s. 7),  
amended.

Alteration  
in power  
systems.

(2) The amendment made by subsection 1 shall have effect as from the 1st day of November, 1922. Amendment  
retroactive.

**12.** Section 30 of *The Power Commission Act* is amended by striking out all the words following the words "by Part I" in the sixth line. Rev. Stat.  
c. 39, s. 30,  
amended.

**13.** Section 30*e* of *The Power Commission Act* as enacted by section 4 of *The Power Commission Act, 1922*, is amended by inserting after the word "may" in the twelfth line the words "on behalf of the municipal corporation"; by inserting after the word "construct" in the twelfth line the words "acquire, reconstruct, extend"; and by inserting after the words "rural power district" in the sixteenth and seventeenth lines the words "who have entered into a contract for electrical power or energy with the municipal corporation of the township in which each such person resides." Rev. Stat.  
c. 39, s. 30*e*,  
(1922, c. 31,  
s. 4),  
amended.

**14.** *The Power Commission Act* is amended by adding thereto the following section: Rev. Stat.  
c. 39,  
amended.

30*ee*. Whenever the municipal corporation of any such township at the time of entering into the contract has been operating a distribution system for distributing electrical power or energy to inhabitants of the township or has a contract with Changing  
from any  
other  
method of  
supply to  
rural power  
district.



the Commission for a supply of electrical power or energy under any other part of this Act, the Commission, with the approval of the municipal corporation, may take over, acquire, reconstruct, extend and operate such distribution system and may adopt and perform the contracts with the customers thereof and may incorporate such system in a rural power district.

Rev. Stat.  
c. 39, s. 30f,  
(1920, c. 18,  
s. 5),  
repealed.

**15.** Section 30f of *The Power Commission Act* as enacted by section 5 of *The Power Commission Act, 1920*, is repealed and the following substituted therefor:

Rural power  
district  
assent of  
electors not  
required.

30f. The council of the township or the council of each of the townships entering into a contract under either of the next two preceding sections may pass a by-law for entering into such contract and may execute the same, and it shall not be necessary to submit any such by-law to the vote of the electors or to comply with any of the other forms required in the case of a by-law passed under Part I of this Act.

Rev. Stat.  
c. 39, s. 30j  
(1920, c. 18,  
s. 5),  
amended.

**16.** Section 30j of *The Power Commission Act* as enacted by section 5 of *The Power Commission Act, 1920*, is repealed.

Rev. Stat.  
c. 39, s. 37  
(1916, c. 19,  
s. 10),  
repealed

**17.** Section 37 of *The Power Commission Act* as re-enacted by section 10 of *The Power Commission Act, 1916*, and amended by section 12 of *The Power Commission Act, 1917*, and section 15 of *The Power Commission Act, 1918*, is repealed and the following substituted therefor:

Power to  
make  
regulations.

37.—(1) The Commission may, with the approval of the Lieutenant-Governor in Council make rules and regulations,—

Regulations  
as to plant,  
machinery,  
etc.

(a) prescribing the design, construction, installation, protection, use, maintenance, repair, extension, alteration, connection and disconnection of all installations, plant, machinery, apparatus, appliances, devices, fittings, materials and equipment and other works and matters used or to be used in the generation, transformation, transmission, distribution, supply or utilization of electrical power or energy in Ontario;

Prohibiting  
use until  
authorized.

(b) prohibiting the use in Ontario of any such works or matters until the same shall have been inspected and approved;

Prohibiting  
advertising  
or sale in  
unauthor-  
ized manner.

(c) prohibiting the advertising or display or offering for sale or other disposal, and the sale or other disposal, publicly or privately in Ontario, of any such works or matters unless and until the same shall have been inspected and approved, and prescribing the precautions to be taken in the sale or other disposal of

such works or matters and the warnings and instructions to be given to purchasers and others in advertisements and by circular or otherwise in order to prevent their use in such manner or under such conditions as may be likely to result in undue hazard to persons or property;

- (d) providing for the inspection, test and approval of all such works and matters before being used for any such purposes. Inspection test and approval.
- (2) The Commission may from time to time prepare and issue plans and specifications governing the design, construction and test of any of the works or matters mentioned in subsection 1, and may from time to time amend or alter such plans and specifications. Issuing of plans and specifications.
- (3) The Commission may at any time issue such orders relating to work to be done in the installation, removal, alteration, repair, protection, connection or disconnection of any of the works or matters mentioned in subsection 1 as the Commission may deem necessary for the safety of the public or of workmen or for the protection of property. Orders relating to installations, alterations, etc.
- (4) The Commission may appoint such inspectors and other officers as it may deem necessary for the purposes of this section. Appointment of inspectorial staff.
- (5) The Commission may prescribe the fees to be paid for permits and for inspection, test and approval of all such works and matters mentioned in subsection 1 and of plans and specifications relating thereto, and may prescribe also the time and manner of payment of such fees. Fees for permits, inspection, test and approval.
- (6) The Commission shall collect the fees prescribed by it under the authority of subsection 5 and shall provide for the remuneration, travelling and other expenses of the said inspectors and other qualified persons, together with all other expenses incurred in carrying out the provisions of this section, out of the said fees and out of any fines imposed for breach of any of the provisions of this section or of any rules, regulations, plans, specifications or orders made under the authority thereof, and out of the funds appropriated for carrying out the work of the Commission. Collection and disposition of fees and fines.
- (7) Every inspector appointed under the authority of this section may, at any reasonable hour enter upon, pass over or through any land, building or premises for the purpose of performing the duties assigned to him under the authority of this section. Powers of inspectors.

Liability.

- (8) Nothing in this Act or in any of the rules or regulations, plans, specifications or orders issued under the authority of this section shall render the Commission or any of its inspectors or other employees liable, or shall affect the liability of any municipal or other corporation or commission, company, firm or individual, for any injury, loss or other damages caused to any person or property by reason of defects in any of the works or matters mentioned in this section or by reason of any order of the Commission notwithstanding any inspection or test or the issue of any certificate by the Commission or by any of its inspectors or other employees.

Penalty for interference.

- (9) (a) Every municipal or other corporation or commission, and every company, firm or individual hindering, molesting, disturbing or interfering with an inspector or other employee in the performance of his duty under this section shall incur a penalty of not less than \$10 nor more than \$50 for each and every offence.

Penalty for disobedience to regulations.

- (b) Every municipal or other corporation or commission, and every company, firm or individual refusing or neglecting to comply with the provisions of this section or with any rule or regulation, plan or specification made under the authority thereof, shall incur a penalty of not less than \$10 nor more than \$50 for each and every such offence.

Penalty for disobedience to order.

- (c) Every municipal or other corporation or commission, and every company, firm or individual refusing or neglecting to comply with any order issued by the Commission under the authority of subsection 3 shall incur a penalty of not less than \$100 nor more than \$500 and a further penalty of not less than \$100 nor more than \$500 for each and every separate day upon which such refusal or neglect is repeated or continued.

Recovery of penalties.

- (d) The penalties imposed by or under the authority of this section shall be recoverable under *The Ontario Summary Convictions Act* and shall be paid over to the Commission.

Section not to apply to mines.

- (10) This section shall not apply to any mine as defined under *The Mining Act of Ontario* save only as regards any dwelling house or other building not connected with or required for mining operations or purposes or used for the treatment of ore or mineral.

Rev. Stat.  
c. 39,  
amended.

**18.** *The Power Commission Act* is amended by adding thereto the following sections:



38a. Where it appears to the Commission upon the examination of the accounts of any municipal corporation or municipal commission receiving power from the Commission under a contract between the municipal corporation and the Commission under this Act, that there are arrears due and owing for electrical power or energy supplied by the municipal corporation or municipal commission or for rents, rates, costs and charges in connection with the service or supply of such power or energy or for the installation of any works for such service or supply and that the municipal corporation or municipal commission has not taken the necessary proceedings for the collection of such arrears, the Commission may give such directions as it may deem proper in writing, signed by the chairman or secretary, for the collection of the arrears by any method by which the same may be collected, and it shall be the duty of the municipal corporation or municipal commission forthwith after receiving such directions to take all proceedings necessary to carry the same into effect.

Collection of  
arrears on  
direction  
from  
Commission.

38b. Where a municipal corporation or a municipal commission receiving electrical power or energy from the Commission under a contract with the Commission entered into in pursuance of the provisions of this Act,—

Offences and  
penalties.

- (a) supplies electrical power or energy to any person upon terms and at rates other than those which have been approved of by the Commission;
- (b) grants to any person to whom electrical power or energy is supplied by the municipal corporation or commission, special terms by way of bonus or otherwise as to the rates to be paid for electrical power or energy, or as to the terms at which the same are to be supplied;
- (c) neglects or refuses to carry out any direction of the Commission given under section 38a;
- (d) by any means whatsoever, directly or indirectly reduces the cost of electrical power or energy to any individual, firm or corporation so that the same is supplied to such individual, firm or corporation at a lower rate or upon better terms than those approved of by the Commission;
- (e) fails to keep account in the manner prescribed by the Commission or makes improper entries therein or charges against any account items not properly chargeable thereto;

such municipal corporation or municipal commission shall be guilty of an offence and every member of the municipal council of such municipal corporation or every member of the municipal commission as the case may be, shall be disqualified from sitting and voting in the council or from election thereto, or from acting as a member of the municipal commission or being appointed thereto, and from holding any other municipal office for a period of five years from the date of judgment or order declaring his disqualification and proceedings may be taken against him in the same manner as in the case of a member of a municipal council who has become disqualified or has forfeited his seat under the provisions of *The Consolidated Municipal Act, 1922*; Provided that no member of the municipal council or of the municipal commission as the case may be, shall be found to be so disqualified who proves to the satisfaction of the court or judge before whom the application for a declaration of his disqualification is made, that he was not a party to the offence and that he did everything in his power to prevent the commission of the same.

Proviso.

When  
default made  
Commission  
may take  
action.

- 38c. Where a municipal corporation or commission neglects or refuses to carry out any of the provisions of this Act or any direction or regulation lawfully given or made hereunder, the Commission, if it deems necessary or desirable so to do, may appoint some person or persons to do whatever is necessary to remedy such neglect or default and to comply with this Act or any such direction or regulation, and the reasonable and proper costs and charges incurred by the commission in so doing shall be a debt due and payable by the municipal corporation or municipal commission to the Commission and shall be added to and shall be chargeable and collected with the charges set out in section 23 of this Act.

Rev. Stat.  
c. 39,  
amended.

**19.** *The Power Commission Act* is amended by adding thereto the following section:

Enforcing  
payment  
of arrears  
of rates and  
charges.

52. Where the Commission supplies or distributes power directly to the consumer either on its own behalf or by arrangement or under contract with the municipal corporation, the amount payable by the owner or occupant of any building or lot, or part of lot, for the electrical power or energy supplied to him for use therein or thereon, and all rents, rates, costs and charges in connection with the service or supply of such power or energy or the installation of any works for such service or supply shall be a lien and charge upon the building or lot or part of lot in the same manner and to the same extent as municipal taxes on land, and in default of payment the clerk of the municipality, upon being notified in writing by the Commission of the sum due, shall forthwith enter the

same upon the collector's roll and it shall be collected in the same manner as municipal taxes on land and upon recovery thereof shall be paid over to the Commission.

- (a) For the purposes of this section electrical power or energy shall be deemed to be supplied to the consumer not only when it is actually used by the owner or occupant but when it is rendered available or held in reserve for him under the terms of his contract with the Commission or the municipal corporation.

**20.** By-law No. 1546 of the Corporation of the City of Guelph; <sup>By-laws confirmed.</sup> By-laws Nos. 5 and 30 of the Corporation of the Town of Meaford; By-laws Nos. 511 and 512 of the Corporation of the Village of Stouffville; By-laws Nos. 8 and 12 of the Corporation of the Village of Courtright; By-laws Nos. 6 and 7 of 1923 of the Corporation of the Village of Clifford; By-law No. 146 of the Corporation of the Village of Victoria Harbor; By-laws Nos. 593, 710, 725 and 729 of the Corporation of the Village of Paisley; By-laws Nos. 128, 129, 137 and 142 of the Corporation of the Village of Wheatley; By-laws Nos. 5 and 6 of the Corporation of the Village of Brussels; By-laws Nos. 60 and 61 of the Corporation of the Village of Jarvis; By-laws Nos. 302 and 303 of the Corporation of the Village of Sutton; By-laws No. 4 of 1921 and 9 of 1923 of the Corporation of the Village of Blyth; By-law No. 658 of the Corporation of the Village of Fergus; By-laws Nos. 787 and 788 of the Corporation of the Township of Percy; By-law No. 928 of the Corporation of the Township of Delaware; By-law No. 30 of 1923 of the Corporation of the Township of Sombra; By-law No. 719 of the Corporation of the Township of Mosa; By-law No. 883 of the Corporation of the Township of Southwold; By-law No. 522 of the Corporation of the Township of Chinguacousy; By-law No. 422 of the Corporation of the Township of King; By-law No. 824 of the Corporation of the Township of Williamsburg; By-law No. 594 of the Corporation of the Township of Niagara; By-law No. 222 of the Corporation of the Township of Mersea; By-law No. 910 of the Corporation of the Township of Flos; By-law No. 391 of the Corporation of the Township of Middleton; By-law No. 494 of the Corporation of the Township of Kenyon; By-law No. 557 of the Corporation of the Township of Glanford; By-law No. 845 of the Corporation of the Township of Darlington; By-law No. 516 of the Corporation of the Township of Sunnidale; By-law No. 1076 of the Corporation of the Township of Malahide; By-law No. 10 of 1923 of the Corporation of the Township of Tilbury East; By-law No. 8 of 1923 of the Corporation of the Township of Sarnia; By-law No. 657 of the Corporation of the Township of South Dumfries; By-law No. 548 of the Corporation of the Township of Eldon; By-law No. 849 of the Corporation of the Township of Wellesley; By-law No. 923 of the Corporation of the Township of Murray; By-law No. 1335 of the Corporation of the Township of Barton; By-laws Nos. 281, 282, 283, 291, 293, 300 and 315 of the Corporation of the Township of Trafalgar; By-laws Nos. 62, 63, 66, 67, 77 and 79 of the Corporation of the Township of North



York; By-law No. 7376 of the Corporation of the Township of York; By-law No. 486 of the Corporation of the Town of Mimico; By-law No. 11 of 1923 of the Corporation of the Town of Dunnville; By-laws Nos. 3058, 3059, 3060, 3195, 3196, 3197, 3198, 3199 and 3210 of the Corporation of the City of Windsor; By-law No. 228 of the Corporation of the Village of Port Dover; By-law No. 527 of the Corporation of the Village of Fort Erie; By-law No. 1114 of the Corporation of the Town of Leamington; By-law No. 529 of the Corporation of the Town of Kingsville; and By-law No. 707 of the Corporation of the Town of Essex; and all debentures issued or to be issued or purporting to be issued, under any of the said by-laws which authorize the issue of debentures, are confirmed and declared to be legal, valid and binding upon such corporations and the ratepayers thereof, respectively, and shall not be open to question upon any grounds whatsoever, notwithstanding the requirements of *The Power Commission Act*, or the amendments thereto, or any other Act of this Legislature.

Commence-  
ment of Act.

**21.** This Act shall come into force on the day upon which it receives the Royal Assent.

Chapter 24, 1924.

## **An Act respecting the Hydro-Electric Power Commission of Ontario and certain Companies and Corporations.**

*Assented to 17th April, 1924.*

**H**IS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:—

Short title.

**1.** This Act may be cited as *The Power Commission and Companies Transfer Act, 1924*.

Companies  
authorized  
to contract  
with Com-  
mission for  
transfer of  
assets.

**2.** The Electrical Development Company of Ontario, Limited, The Hydro-Electric Power Commission of Ontario (hereinafter called "the Commission"), National Trust Company, Limited, The Toronto Power Company, Limited, and His Majesty the King, represented by the Lieutenant-Governor of the Province of Ontario acting by the Honourable G. Howard Ferguson, Prime Minister of the said Province, are authorized and empowered to execute the agreement set out in the schedule to this Act and upon the execution and delivery thereof the said agreement shall be legal, valid and binding upon the parties thereto and upon the *cestuis que trustent* under certain indentures of mortgage recited in the said agreement in the same manner and to the same extent as if the terms of the said agreement had been set out and enacted in the body of this Act, and the parties to the said agreement are respectively authorized and empowered to execute all instru-

ments and to do and provide for all matters necessary and expedient to be done and provided for to give effect to the said agreement according to the true intent and meaning thereof.

3. Upon the execution and delivery of the said agreement all the properties, rights, assets and franchises of The Electrical Development Company of Ontario, Limited, shall be vested in the Commission but subject to the terms, covenants, agreements, provisoes and conditions referred to or set out in the said agreement and subject to the indenture of mortgage dated the 1st day of March, 1903, recited in the said agreement, and to the bonds secured by the said indenture of mortgage, and to all rights by the said indenture of mortgage and the said bonds reserved, and subject to the due observance, fulfilment and performance by the Commission of all covenants, agreements, provisoes, and conditions in the said indenture to be kept, observed and performed by the said The Electrical Development Company of Ontario, Limited.

Effect of transfer.

4. The Commission is authorized and empowered to make with the Ontario Power Company of Niagara Falls and The Ontario Transmission Company, Limited, named in a certain agreement dated the 12th day of April, 1917, set out in Schedule "U" to *The Power Commission Act, 1918*, a contract or contracts for the sale and transfer to the Commission of all the properties, rights, assets and franchises of the said companies, and every such sale and transfer shall be legal, valid and binding upon the parties thereto and upon the *cestuis que trustent* under an indenture of mortgage dated the 2nd day of February, 1903, given by the Ontario Power Company of Niagara Falls to secure an issue of bonds of the said company, and under certain indentures of mortgage and agreements dated respectively the 16th day of August, 1905, the 20th day of April, 1910, the 11th day of June, 1910, and the 31st day of October, 1914, given or entered into by The Ontario Transmission Company, Limited, to secure an issue of bonds of that Company, and shall not constitute a breach of any covenant contained in such indentures and agreements nor cancel, annul or affect in any manner any contract entered into or any franchise or right held by either of the said companies prior to such sale or transfer, but every such sale or transfer shall be subject to such indentures and agreements and to the bonds secured thereby and to all rights by such indentures, agreements and bonds reserved.

Authority to contract with Ontario Power Co. and Transmission Co. for transfer of assets.

5. From and after the making of any contract or contracts for sale and transfer under section 4 of this Act, the Commission shall duly observe, fulfil and perform, and all present and future property of the Commission shall be subject to and charged with the due observance, fulfilment and performance of all agreements, covenants, provisoes, conditions, terms and obligations to be observed, fulfilled and performed by the Ontario Power Company of Niagara Falls and The Ontario Transmission Company, Limited, or either of them, or for the observance, fulfilment and performance of which the Ontario Power Company of Niagara Falls and The Ontario Transmission Company, Limited, are, or shall be, or either of them is, or shall be

Duties of Commission after entering into contract.

liable under any and every indenture, agreement, contract or franchise which has been or shall be prior to any such contract or contracts for sale and transfer entered into or held by said companies or either of them, and every other party to any such indenture, agreement, contract or franchise shall have the same rights and remedies against the Commission, and its property, under and in respect thereof, including the right to enforce observance, fulfilment and performance thereof, and the right to recover damages for any failure in such observance, fulfilment and performance as such party has or at any time shall have, or but for such sale and transfer would have against said companies or either of them, or the property of said companies or either of them, and all such rights and remedies shall be enforceable against the Commission and its property by action or proceeding in any court of competent jurisdiction without fiat or consent.

Sale not to  
invalidate  
guarantees.

6. No sale and transfer under any contract made under section 4 of this Act shall invalidate, impair, modify or affect any of the guarantees contained in the agreement set out in Schedule "U" to *The Power Commission Act, 1918*, or in any agreement entered into pursuant thereto, but notwithstanding any such sale and transfer, all of said guarantees shall remain in full force and effect.

Amount of  
sinking fund  
payments.

7. After any sale and transfer under the provisions of section 4 of this Act, the sinking fund payments under the above-mentioned indenture made by the Ontario Power Company of Niagara Falls, dated the 2nd day of February, 1903, shall under any and all circumstances and without any necessary relation to the amount of power actually sold by the said company and paid for by the purchasers amount to not less than the sum of \$125,000 in each year and shall be paid by the Commission on the 1st day of July in each year during the currency of the bonds by said indenture secured.

Commence-  
ment of  
Act

8. This Act shall come into force on the day upon which it receives the Royal Assent.

#### SCHEDULE "A."

Agreement made as of the twenty-fifth day of March, 1924.

Between:

THE ELECTRICAL DEVELOPMENT COMPANY OF ONTARIO, LIMITED,  
hereinafter called "The Development Company,"

of the first part;

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO,  
hereinafter called "the Commission,"

of the second part;

NATIONAL TRUST COMPANY, LIMITED,  
Trustee for the bondholders of the Development Company under  
Indenture of Mortgage dated 1st March, 1903, hereinafter called  
"The Trustee,"

of the third part;

THE TORONTO POWER COMPANY, LIMITED,  
hereinafter called "the Toronto Company,"

of the fourth part;

—and—

HIS MAJESTY THE KING,  
herein represented by the Lieutenant-Governor in Council of the  
Province of Ontario, acting by The Honourable G. Howard Ferguson,  
Premier of the said Province, hereinafter called "the Guarantor,"

of the fifth part.



Whereas the Toronto and Niagara Power Company (hereinafter called "the Niagara Company") was incorporated by Special Act of the Parliament of Canada, 2 Edward VII, Cap. 107, and thereafter constructed and operated transmission lines from Niagara Falls, Ontario, to the City of Toronto and elsewhere;

And whereas the Niagara Company made an issue of first mortgage bonds to the par value of \$1,500,000 secured by a mortgage, dated 1st March, 1903, on the said transmission lines and upon its undertaking generally, to National Trust Company Limited, Trustee;

And whereas all of the said bonds were and all of the shares in the capital stock of the Niagara Company are owned by the Development Company;

And whereas the Development Company pledged the said bonds and shares to the Trustee along with its own works, plant and undertaking to secure an issue of First Mortgage 5% bonds of \$10,000,000 by Indenture of Mortgage dated 1st March, 1903 (hereinafter referred to as "the said Indenture") of which bonds there are outstanding at the date of this agreement bonds to the par value of \$9,079,500 of which \$5,014,000 are held by the Toronto Company;

And whereas by agreement dated the 11th day of March, 1919, the Toronto Electric Light Company (hereinafter called "the Electric Company") sold and conveyed to the Niagara Company all its assets consisting *inter alia* of a distribution system in the City of Toronto for the sum of \$8,212,100, the Niagara Company as part of such consideration assuming the payment of two issues of bonds of the Electric Company secured on the said assets for \$1,000,000 of first mortgage bonds and for \$3,000,000 of second mortgage bonds respectively, the balance of the purchase price of \$4,212,100 being represented by the Niagara Company's promissory note, the Electric Company reserving a vendor's lien in respect of such balance;

And whereas certain of the assets so purchased by the Niagara Company, consisting of a distribution system in the City of Toronto, were subsequently by agreement dated 20th December, 1921, sold to the corporation of the City of Toronto, subject to the said bonds of the Niagara Company and the mortgage securing the same, to the said bonds of the Electric Company and the mortgages securing the same and subject also to the vendor's lien securing to the Electric Company the balance of \$4,212,100, aforesaid;

And whereas the said sale was in the interests of the Niagara Company and of the Development Company as owner of the share capital of the Niagara Company, and before or contemporaneously with the delivery of this agreement the mortgages securing the said bonds of the Electric Company, the said bonds and the said vendor's lien have all been discharged and cancelled;

And whereas the Niagara Company has before or contemporaneously with the delivery of this agreement, sold and assigned all its plant and physical assets, including the said transmission lines to the Development Company, the latter by the instrument of transfer subjecting such assets to the charge of the said Indenture in favour of the Trustee and to the bonds secured thereby;

And whereas the Trustee has before or contemporaneously with the delivery of this agreement, cancelled said \$1,500,000 of bonds of the Niagara Company and executed a discharge to the Niagara Company of the mortgage securing the same, retaining as part of the mortgaged premises under the said Indenture all of the shares in the capital stock of the Niagara Company;

And whereas the Development Company is the owner of works for the generation of electric power at Niagara Falls, Ontario, and certain franchises, rights and other real and personal property including the said property and transmission lines acquired from the Niagara Company as well as all of the shares in the capital stock of The Toronto and Niagara Power Company as aforesaid, all of the said assets being hereinafter collectively referred to as "the said properties";

And whereas the Toronto Company owns all of the shares in the capital stock of the Development Company and the Commission owns all of the shares in the capital stock of the Toronto Company;

And whereas it is desirable for the more economic and convenient operation of the undertaking of the Commission that there be transferred to the Commission all of the said properties, subject to the said outstanding issue of bonds of the Development Company and to the said Indenture securing the same;

And whereas the Development Company and the Toronto Company have agreed to the said transfer;

And whereas the Trustee has been requested to consent to the said transfer and has agreed to do so in consideration of the making of this agreement;

Now this Agreement witnesseth as follows:

1. The sale by the Niagara Company to the corporation of the City of Toronto of such distribution system, the conveyance of its said other assets to the Development Company, and the cancellation by the Trustee of the bonds of the Niagara Company, as hereinbefore recited, are ratified and confirmed.

2. The Development Company hereby grants, bargains, sells, assigns, transfers, and sets over unto the Commission all the said properties, subject, however, to the said Indenture and to the bonds therein referred to and secured thereby and to all rights by the said Indenture and said bonds reserved, of which bonds there are outstanding at the date of this agreement bonds to the par value of \$9,079,500, and subject to the due observance, fulfilment and performance by the Commission of all of the covenants, agreements, provisos and conditions in the said Indenture to be kept, observed and performed by the Development Company. The sale of the said properties shall not cause or be held to be a breach of the covenant of the Development Company in the said Indenture contained to carry on and conduct its business.

3. The Commission covenants with the Trustee that subject as aforesaid the Commission will itself duly keep, observe, fulfil and perform all of the covenants, agreements and conditions in the said Indenture contained, to be by the Development Company kept, observed, fulfilled and performed.

4. The Toronto Company hereby consents to the said transfer and agrees with the Trustee that on any distribution to bondholders of the proceeds of realization which the Trustee may make under the terms of the said Indenture, (other than through the operation of the sinking fund), the Toronto Company, or other holders for the time being of the said \$5,014,000 of Development Company bonds, shall not be entitled to receive from the Trustee any payment on account of the amount owing on the said bonds (other than through the operation of the said sinking fund) until the holders for the time being of the remaining bonds of the said issue amounting at this date to \$4,065,500 par value shall have first been paid and satisfied in full, the intent being that the mortgaged premises under the said Indenture shall stand as a first security for the repayment of the said \$4,065,500 of bonds in preference to and with priority over the remaining bonds of the said issue now held by the Toronto Company. And the Development Company and the Commission jointly and severally covenant and agree with the Trustee and with the holders for the time being of the said \$4,065,500 of bonds of the Development Company, that they will not nor will either of them pay or discharge (otherwise than through the operation of the sinking fund) any portion of the said \$5,014,000 of Development Company bonds now held by the Toronto Company until after payment and satisfaction in full has been made of the \$4,065,500 of Development Company bonds above referred to, and the Toronto Company covenants with the Trustee and with the holders for the time being of the said \$4,065,500 of bonds of the Development Company, that it will not at any time subsequent to the date of the agreement nor will any subsequent holders taking title through it, ask for, demand or receive payment of the said \$5,014,000 of Development Company bonds or any part thereof now held by it (save through the operation of the said sinking fund) until after payment and satisfaction in full has been made of the said \$4,065,500 of Development Company bonds as aforesaid.

Expressly reserving, however, to the Toronto Company or other the holders for the time being of the said \$5,014,000 of bonds, in all other respects equally with the holders of the remaining bonds of the said issue, all rights and powers possessed by it or them respectively as the holder or holders of the said bonds, including the exercise of any right or power which under the terms of the said Indenture may be exercised by bondholders. Contemporaneously with the delivery of this agreement the Toronto Company shall produce to the Trustee all of the said \$5,014,000 of bonds for the purpose of being stamped with a notice substantially in the following form, i.e.:

By virtue of the Statutes of Ontario, 1924, Chapter 24 and of the agreement therein referred to neither the bearer nor registered holder, as the case may be, of this or any other bonds of the issue of which it and they form part, bearing this stamp, is entitled in the event of realization by the Trustee of the security of any part thereof provided by the Indenture of Mortgage within referred to or otherwise (except through the operation of the sinking fund) to receive any of the proceeds of such realization, nor can the Company pay nor the bearers or registered holders of this or such other bonds bearing this stamp receive payment otherwise of any of the moneys secured thereby until the principal and interest on all of the other bonds of the said issue not bearing this stamp have first been fully paid and satisfied.

NATIONAL TRUST COMPANY, LIMITED,  
*Trustee.*

5. The Commission hereby guarantees to the Trustee and to the respective holders thereof for the time being, the due payment by the Development Company, as the same become due, of the principal of and interest on all of the said bonds of the Development Company secured by



the said Indenture outstanding at the date of this agreement other than those held by the Toronto Company so stamped as aforesaid, the par value of the said bonds to which this guarantee extends being the sum of \$4,065,500.

6. The Guarantor covenants with and guarantees to the Trustees and with and to the respective holders for the time being of the bonds of the Development Company to which the next preceding paragraph number five applies, that the Commission will duly keep, observe and perform its covenant and guarantee for payment in the said next preceding paragraph number five contained.

7. The Commission and the Development Company jointly and severally covenant and agree with the Trustee that the annual sinking fund payment to be made by the Development Company to the Trustee under the provisions of paragraph Thirty of the said Indenture, shall under any circumstances and without any necessary relation to the amount of power actually sold by the Development Company and paid for by the purchasers, amount to not less than the sum of \$90,000.00.

8. Wherever the Trustee is mentioned or referred to in this agreement such mention or reference shall, where the context admits, extend to and include the successors in the trust of the said Trustee.

In witness whereof this agreement has been executed by the parties hereto under their respective corporate seals and the hands of their proper officers in that behalf.

SIGNED, SEALED AND DELIVERED

in the presence of:

Chapter 25, 1924.

## An Act to amend The Rural Hydro-Electric Distribution Act, 1921.

*Assented to 17th April, 1924.*

**H**IS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:—

1. This Act may be cited as *The Rural Hydro-Electric Distribution Act*, 1924.

2. Section 4 of *The Rural Hydro-Electric Distribution Act, 1921*, is <sup>1921, c. 21,</sup> amended by striking out the word "zone" in the last line but one and <sup>s. 4,</sup> amended. inserting in lieu thereof the word "district," and by inserting after the word "cables" in the last line but one, the words "service transformers and meters, and secondary lines on the highway" so that the section will now read as follows:

4. Where power is supplied to a rural power district under the provisions of *The Power Commission Act* and amendments thereto, there may be paid to the municipality or commission distributing the power in such rural power district upon the recommendation of The Hydro-Electric Power Commission of Ontario and the order of the Lieutenant-Governor in Council, a sum not exceeding fifty per centum of the capital cost of constructing and erecting in the rural power district <sup>Where power supplied to rural power districts.</sup>



primary transmission lines and cables, service transformers and meters, and secondary lines on the highway required for the delivery of power in such rural power district.

1921, c. 21,  
s. 4a, (1923  
c. 13, s. 2),  
amended.

**3.** Section 4a of *The Rural Hydro-Electric Distribution Act, 1921*, as enacted by section 2 of *The Rural Hydro-Electric Distribution Act, 1923*, is amended by inserting after the word "cables" in the last line but two the words "service transformers and meters, and secondary lines on the highway" so that the section will now read as follows:

Payment of  
grant where  
municipality  
is distributor  
of power.

4a. Where the corporation of a township or of an urban municipality supplies or distributes electrical power or energy in an adjoining township or within any such rural power district under the provisions of section 24 of *The Public Utilities Act*, or under any other general or special Act, there may be paid to such corporation upon the recommendation of The Hydro-Electric Power Commission of Ontario and the order of the Lieutenant-Governor in Council, a sum not exceeding fifty per centum of the capital cost of constructing and erecting in such adjoining township or rural power district, primary transmission lines and cables, service transformers and meters, and secondary lines on the highway required for the delivery of power or energy in such adjoining township or any such rural power district.

Payments  
may be  
retroactive.

**4.** The payments and allowances authorized by section 4 of *The Rural Hydro-Electric Distribution Act, 1921*, as amended by section 2 of this Act, and authorized by section 4a of the said *The Rural Hydro-Electric Distribution Act, 1921*, as enacted by section 2 of *The Rural Hydro-Electric Distribution Act, 1922*, and re-enacted by section 2 of *The Rural Hydro-Electric Distribution Act, 1923*, and amended by section 3 of this Act, may be made in respect of works constructed before or since the 1st day of June, 1921, and the said payments and allowances and the appropriations made at the present Session of the Legislature in aid of the construction of primary transmission lines in rural power districts and townships shall extend to and include the construction and erection of service transformers and meters, and secondary lines on highways as provided for in *The Rural Hydro-Electric Distribution Act* as amended by this Act.

Appropriations of  
1923-1924  
to extend to  
secondary  
lines, etc.

Commence-  
ment of  
Act.

**5.** This Act shall come into force on the day upon which it receives the Royal Assent.

Chapter 26, 1924.

**An Act respecting The Hydro-Electric Railway Act, 1919, and the contract set out in Schedule "A" to said Act.**

*Assented to 17th April, 1924.*

**H**IS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:—

**1.** This Act may be cited as *The Hydro-Electric Railway Act*, Short title. 1924.

**2.** The auditor of The Hydro-Electric Power Commission of Ontario, upon the request in writing of the corporation of any of the townships of East Flamboro', North Grimsby and Barton, or of the corporation of the City of Hamilton shall fix and determine the total cost to the Commission, including interest charges, of all work and expenses incurred in connection with and properly chargeable to the railway from Port Credit to St. Catharines provided for in the contract set out in schedule "A" to *The Hydro-Electric Railway Act, 1919*, and shall certify the same to such municipal corporation, and upon payment or tender of the proper proportion of the amount so determined and certified, the Commission shall return to such municipal corporation the debentures issued by it and deposited with the Commission pursuant to the clause lettered *b* in the paragraph numbered 2 in the said contract, and to any resolution passed by the council of the municipal corporation under section 4 of *The Hydro-Electric Railway Act, 1919*.

Auditor to certify as to expenses of H.E. Ry. from Port Credit to St. Catharines.

Return of bonds to certain municipalities.

**3.** All moneys received by the Commission from the sale or other disposal of any real or personal property acquired by it for the purposes of the said railway shall be held by the Commission in trust for the municipal corporations parties to the said contract and shall be distributed among them in the same proportion as that in which they undertook to contribute under the said contract or under such resolution to the cost of the said railway at such times and in such manner as the Lieutenant-Governor in Council may direct.

Proceeds of sales by Commission to be distributed to municipalities.

**4.** This Act shall come into force on the day upon which it receives the Royal Assent.

Commencement of Act.





## APPENDIX II

### TABLE OF

### TRANSFORMING STATION DETAILS

AS OF OCTOBER 31, 1924

TABLE OF TRANSFORMING STATION

The particulars given in this table refer to all transforming stations owned or operated by the Hydro-Electric Power Commission of Ontario on October 31, 1924.

Under the columns headed "Circuits" are given the complete number and voltage of circuits of all kinds which enter or leave a station except certain feeders that are not the property of the system.

Under "active" transformers are given all transformers actually in operation and in reserve except service transformers.

Station				Circuits			
System number	Name	Date placed in operation	Type of building	High voltage		Low voltage	
				Volts	No.	Volts	No.
NIAGARA							
N 1	Niagara trans. sta. ....	Aug. 1910 Aug. 1914 Aug. 1914	T.S. brick T.S. brick T.S. brick	110,000 ..... 46,000	4 ..... 4	12,000 ..... .....	12 ..... .....
N 152	Beamsville dist. sta. ....	Jan. 1923	P. outdoor	12,000	1	4,000	1
N 142	Chippawa dist. sta. ....	Jan. 1923	P. outdoor	12,000	1	4,000	2
N 153	Grimsby dist. sta. ....	Dec. 1922	P. outdoor	12,000	1	4,000	1
N 144	Lincoln dist. sta. ....	June 1924	P. outdoor	12,000	1	4,000	2
N 147	St. Davids dist. sta. ....	April 1924	P. outdoor	12,000	1	4,000	1
N 2	Dundas trans. sta. ....	Sept. 1910	T.S. brick	110,000	12	13,200	6
N 237	Caledonia dist. sta. ....	Sept. 1912	C. brick	13,200	1	2,300	2
N 246	Decewsville dist. sta. ....	Oct. 1924	P. outdoor	13,200	1	4,000	1
N2D 31	Dundas rural dist. sta. ....	May 1923	P. outdoor	13,200	1	4,000	2
N 239	Hagersville dist. sta. ....	Aug. 1913 June 1923	D. brick outdoor	13,200 .....	1 .....	4,000 2,300	2 1
N 234	Lynden dist. sta. ....	Sept. 1915	E. brick	13,200	1	4,000	2
N 235	Waterdown dist. sta. ....	Feb. 1924	P. outdoor	13,200	1	4,000	2
Toronto:							
N 3	Strachan Ave. trans. sta. ....	Feb. 1911	T.S. brick	110,000	3	13,200	31
N 31	Bridgman Ave. trans. sta. ....	Oct. 1924	outdoor	110,000	2	13,200	4
N 32	Wiltshire Ave. trans. sta. ....	Oct. 1924	outdoor	110,000	2	13,200	4
N3338	Blantyre dist. sta. ....	1912a	sheet metal	12,000	1	4,000	1
N3342	Bond Lake dist. sta. ....	1899a	brick	12,000	1	4,000	4
N3349	Keswick dist. sta. ....	1906a	sheet metal	12,000	1	4,000	2
N3352	Mount Joy dist. sta. ....	Sept. 1923	P. outdoor	12,000	1	4,000	2
N3346	Newmarket dist. sta. ....	1905a	brick	12,000	1	4,000	2
N3340	York Mills dist. sta. ....	1899a	brick	12,000	1	4,000	2
N 4	London trans. sta. ....	Nov. 1910	T.S. brick	110,000	5	13,200	8
N 442	Ailsa Craig dist. sta. ....	Jan. 1916	E. brick	13,200	1	4,000	2
N 432	Delaware dist. sta. ....	Mar. 1915	E. brick	13,200	1	4,000	3
N 439	Dorchester dist. sta. ....	Dec. 1914	E. brick	13,200	1	4,000	3
N 443	Exeter dist. sta. ....	May 1916	D. brick	13,200	1	4,000	4
N4D32	London rural dist. sta. ....	Jan. 1924	P. outdoor	13,200	1	4,000	1
N 440	Lucan dist. sta. ....	Feb. 1915	E. brick	13,200	1	4,000	2
N 5	Guelph trans. sta. ....	Sept. 1910	T.S. brick	110,000	3	13,200	5
N 537	Acton dist. sta. ....	Dec. 1912	B. brick	13,200	1	2,300	2
N 533	Elora dist. sta. ....	Nov. 1914	E. brick	13,200	1	4,000	1
N 534	Fergus dist. sta. ....	Nov. 1914	E. brick	13,200	1	2,300	1
N 539	Georgetown dist. sta. ....	Aug. 1913	D. brick	13,200	1	4,000	2
N 536	Rockwood dist. sta. ....	Aug. 1913	P. outdoor	13,200	1	2,300	1
N 6	Preston trans. sta. ....	Sept. 1910	T.S. brick	110,000	3	13,200	6
N6D 31	Preston rural dist. sta. ....	Mar. 1919	in Preston T.S.	13,200	1	4,000	1

Note.—For subnotes *a*, *b*, *c*, etc., see end of table.

## DETAILS AS OF OCTOBER 31, 1924

Transformers designated as "spare" are extra units at the station ready for emergency use, whereas those referred to as "reserve" are available for use in stations where and when increased capacity is required.

The total kv-a. of all transformers is 1,418,175 kv-a. made up of 1,257,305 kv-a. in operation, 51,660 kv-a. in reserve and 109,210 kv-a. spare.

There are 1,171,925 kv-a. of 25-cycle transformers and 246,250 kv-a. of 60 cycle units, making together the total of 1,418,175.

Transformers										
Active							Spare			
No. of banks	No. of units	Make of units	Unit kv-a.	Phase rating of unit	Total kv-a.	Banks connected		Single phase except where otherwise stated		
						H. V.	L. V.	No.	Make	Unit kv-a.
SYSTEM—25 CYCLES										
5	15	C.W. Co.	3,500	1	52,500	Y	△	7	C.W. Co.	3,500
4	12	C.W. Co.	7,500	1	90,000	Y	△			
3	9	C.G.E. Co.	3,500	1	31,500	Y	△	1	C.G.E. Co.	3,500
1	1	E.E. Co.	300	3	300	△	Y			
1	1	P.E. Co.	300	3	300	△	Y			
1	1	P.E. Co.	300	3	300	△	Y			
1	1	E.E. Co.	300	3	300	△	Y			
1	1	E.E. Co.	300	3	300	△	Y			
1	3	C.W. Co.	5,000	1	15,000	Y	△			
2	2	C.C.W. Co.	300	3	600	△	△			
1	1	M.E. Co.	300	3	300	△	Y			
1	1	P.E. Co.	300	3	300	△	Y			
1	3	C.C.W. Co.	150	1	450	△	Y			
1	1	P.E. Co.	300	3	300	△	△			
1	3	C.W. Co.	75	1	225	△	Y			
1	1	P.E. Co.	300	1	300	△	Y			
6	18	C.G.E. Co.	5,000	1	90,000	Y	△			
2	6	C.G.E. Co.	5,000	1	30,000	Y	△			
2	6	C.G.E. Co.	5,000	1	30,000	Y	△			
1	3	C.W. Co.	300	1	900	△	Y			
2	6	C.W. Co.	300	1	1,800	△	Y			
1	3	C.W. Co.	300	1	900	△	Y			
1	1	C.G.E. Co.	150	3	150	△	Y			
1	3	C.W. Co.	300	1	900	△	Y			
1	3	C.G.E. Co.	300	1	900	△	Y			
2	6	C.G.E. Co.	5,000	1	30,000	Y	△	1	C.G.E. Co.	5,000
1	3	C.W. Co.	75	1	225	△	Y			
1	3	C.G.E. Co.	50	1	150	△	Y			
1	3	C.W. Co.	75	1	225	△	Y			
1	3	C.G.E. Co.	100	1	300	△	Y			
1	1	M.E. Co.	150	3	150	△	Y			
1	3	C.G.E. Co.	75	1	225	△	Y			
1	3	G.E. Co.	2,500	1	7,500	Y	△	1	C.G.E. Co.	2,500
1	3	C.W. Co.	75	1	225	△	△			
1	3	C.C.W. Co.	75	1	225	△	△			
1	3	C.W. Co.	75	1	225	△	Y			
1	3	C.G.E. Co.	75	1	225	△	△			
2	2	P.E. Co.	300	3	600	△	Y			
1	3	C.G.E. Co.	25	1	75	△	△			
2	6	G.E. Co.	1,250	1	7,500	Y	△	1	G.E. Co.	1,250
1	3	P.E. Co.	75	1	225	△	Y			



TABLE OF TRANSFORMING STATION

Station				Circuits			
System number	Name	Date placed in operation	Type of building	High voltage		Low voltage	
				Volts	No.	Volts	No.
NIAGARA							
N 7	Kitchener trans. sta. ....	Sept. 1910	T.S. brick	110,000	2	13,200	8
N 735	Baden dist. sta. ....	May 1912	special	13,200	1	4,000	2
N 734	Elmira dist. sta. ....	Oct. 1913	D. brick	13,200	1	4,000	1
N 737	New Hamburg dist. sta. ....	Feb. 1911	special	13,200	1	2,300	2
N 733	St. Jacobs dist. sta. ....	Sept. 1917	P. outdoor	13,200	1	4,000	2
N 8	Stratford trans. sta. ....	Nov. 1911	T.S. brick	110,000	2	26,400	6
N 834	Dublin dist. sta. ....	Oct. 1917	P. outdoor	26,400	1	4,000	1
N 841	Harriston dist. sta. ....	June 1916	H. brick	26,400	1	4,000	2
N 839	Listowel dist. sta. ....	May 1916	special	26,400	1	4,000	1
N 838	Milverton dist. sta. ....	May 1916	H. brick	26,400	1	4,000	1
N 840	Palmerston dist. sta. ....	June 1916	H. brick	26,400	1	4,000	3
N 832	Tavistock dist. sta. ....	Oct. 1916	special	26,400	1	575	1
				4,000	1	575	1
N 846	Walton dist. sta. ....	July 1924	P. outdoor	26,400	1	4,000	3
N 9	St. Marys trans. sta. ....	April 1911	T.S. brick	110,000	2	13,200	2
N 932	St. Marys Cement Co., dist. sta. ....	Sept. 1912	special. ....	13,200	1	575	1
						575	1
N 10	Woodstock trans. sta. ....	Nov. 1911	T.S. brick	110,000	3	13,200	6
N1034	Beachville dist. sta. ....	July 1912	D.L. brick	13,200	1	2,300	2
N1033	Embro dist. sta. ....	Dec. 1914	E. brick	13,200	1	4,000	1
N1036	Norwich dist. sta. ....	Mar. 1912	special	13,200	1	2,300	2
N 11	St. Thomas trans. sta. ....	Feb. 1912	T.S. brick	110,000	4	13,200	8
N1138	Aylmer dist. sta. ....	Feb. 1915	special	13,200	1	4,000	2
N1134	Dutton dist. sta. ....	Aug. 1915	E. brick	13,200	1	4,000	1
N1133	London & Pt. Stanley Ry. ....	June 1915	in St. Thomas T.S.	13,200	3	920	3
N1137	Port Stanley dist. sta. ....	Mar. 1912	B. brick	13,200	1	2,300	1
N1131	St. Thomas rural dist. sta. ....	July 1923	outdoor	13,200	1	4,000	1
N1135	West Lorne dist. sta. ....	Dec. 1916	E. brick	13,200	1	4,000	2
N 12	Brant trans. sta. ....	Jan. 1914	T.S. brick	110,000	4	26,400	6
		Sept. 1924	outdoor				
N1240	Ayr dist. sta. ....	Dec. 1914	H. brick	26,400	1	4,000	2
N1234	Burford dist. sta. ....	May 1915	H. brick	26,400	1	4,000	1
N1241	Drumbo dist. sta. ....	Dec. 1914	H. brick	26,400	1	4,000	3
N1247	Norfolk dist. sta. ....	Jan. 1923	P. outdoor	26,400	1	4,000	1
N1233	St. George dist. sta. ....	Sept. 1915	in Brant T.S.	4,000	1	230	1
N1235	Waterford dist. sta. ....	May 1915	H. brick	26,400	1	4,000	2
N 13	Cooksville trans. sta. ....	Nov. 1911	T.S. brick	110,000	3	13,200	8
N1331	Port Credit dist. sta. ....	Aug. 1912	B. brick	13,200	1	4,000	2
N1339	Streetsville dist. sta. ....	Nov. 1913	D. brick	13,200	2	2,300	2
N1340	Toronto Twp. dist. sta. ....	Nov. 1911	in Cooksville T.S.	13,200	1	2,300	1
N 14	Kent trans. sta. ....	Aug. 1914	T.S. brick	110,000	4	26,400	6
N1434	Blenheim dist. sta. ....	Oct. 1915	H. brick	26,400	1	4,000	1
N1438	Bothwell dist. sta. ....	Aug. 1915	H. brick	26,400	1	4,000	2
N1442	Bridgen dist. sta. ....	Dec. 1917	P. outdoor	26,400	1	575	1
N1440	Dresden dist. sta. ....	Mar. 1915	H. brick	26,400	1	4,000	1

Note.—For subnotes a, b, c, etc., see end of table.

## DETAILS AS OF OCTOBER 31, 1924—Continued

Transformers										
Active							Spare			
No. of banks	No. of units	Make of units	Unit kv-a.	Phase rating of unit	Total kv-a.	Banks connected		Single phase except where otherwise stated		
						H.V.	L.V.	No.	Make	Unit kv-a.
SYSTEM—25 CYCLES—Continued										
{ 1	3	C.G.E. Co.	1,250	1	3,750	Y	△	4	C.G.E. Co.	5,000
1	3	C.W. Co.	2,500	1	7,500	Y	△	1	C.W. Co.	2,500
1	3	C.C.W. Co.	150	1	450	△	Y	.....	.....	.....
1	3	C.G.E. Co.	150	1	450	△	Y	.....	.....	.....
{ 1	3	P.E. Co.	75	1	225	△	△	.....	.....	.....
{ 1	3	C.G.E. Co.	75	1	225	△	△	.....	.....	.....
1	1	M.E. Co.	150	3	150	△	Y	.....	.....	.....
2	6	C.W. Co.	1,250	1	7,500	Y	△	1	C.W. Co.	1,250
1	1	M.E. Co.	50	3	50	△	Y	.....	.....	.....
1	3	C.G.E. Co.	75	1	225	△	Y	.....	.....	.....
1	3	C.G.E. Co.	200	1	600	△	Y	.....	.....	.....
1	3	C.G.E. Co.	150	1	450	△	Y	.....	.....	.....
1	3	C.G.E. Co.	75	1	225	△	Y	.....	.....	.....
1	3	C.C.W. Co.	75	1	225	△	△	.....	.....	.....
1	3	F.T. Co.	15	1	45	Y	△	.....	.....	.....
1	1	M.E. Co.	150	3	150	△	Y	.....	.....	.....
1	3	G.E. Co.	750	1	2,250	Y	△	4	G.E. Co.	750
1	3	C.G.E. Co.	500	1	1,500	△	△	.....	.....	.....
1	1	P.E. Co.	1,500	3	1,500	△	△	.....	.....	.....
1	3	C.G.E. Co.	2,500	1	7,500	Y	△	2	C.G.E. Co.	1,250
1	3	P.E. Co.	150	1	450	△	△	.....	.....	.....
1	1	P.E. Co.	50	3	50	△	Y	.....	.....	.....
1	3	P.T. Co.	150	1	450	△	△	.....	.....	.....
2	6	G.E. Co.	750	1	4,500	Y	△	1	G.E. Co.	750
1	3	P.E. Co.	75	1	225	△	Y	.....	.....	.....
1	3	C.W. Co.	75	1	225	△	Y	.....	.....	.....
3	9	C.W. Co.	185	1	1,665	△	△	.....	.....	.....
1	3	C.G.E. Co.	100	1	300	△	△	.....	.....	.....
1	1	F.T. Co.	150	3	150	△	Y	.....	.....	.....
1	3	C.W. Co.	75	1	225	△	Y	.....	.....	.....
1	3	C.W. Co.	2,500	1	7,500	Y	△	1	C. W. Co.	2,500
1	3	C.G.E. Co.	5,000	1	15,000	Y	△	1	C.G.E. Co.	5,000
1	3	C.G.E. Co.	75	1	225	△	Y	.....	.....	.....
1	1	M.E. Co.	75	3	75	△	Y	.....	.....	.....
1	3	C.G.E. Co.	75	1	225	△	Y	.....	.....	.....
1	1	C.C.W. Co.	300	3	300	△	Y	.....	.....	.....
{ 1	3	C.C.W. Co.	50	1	150	Y	△	.....	.....	.....
{ 1	3	G.E. Co.	50	1	150	Y	△	.....	.....	.....
1	3	C.W. Co.	75	1	225	△	Y	.....	.....	.....
1	3	G.E. Co.	1,250	1	3,750	Y	△	1	G.E. Co.	1,250
{ 1	3	C.G.E. Co.	75	1	225	△	Y	.....	.....	.....
{ 1	1	P.E. Co.	300	3	300	△	Y	.....	.....	.....
1	3	C.G.E. Co.	150	1	450	△	△	.....	.....	.....
1	3	Siemens	50	1	150	△	△	.....	.....	.....
2	6	C.G.E. Co.	2,500	1	15,000	Y	△	1	C.G.E. Co.	2,500
1	3	C.G.E. Co.	150	1	450	△	Y	.....	.....	.....
1	3	C.W. Co.	75	1	225	△	Y	.....	.....	.....
1	1	P.E. Co.	75	3	75	△	△	.....	.....	.....
1	3	C.W. Co.	75	1	225	△	Y	.....	.....	.....

### TABLE OF TRANSFORMING STATION

Station				Circuits			
System number	Name	Date placed in operation	Type of building	High voltage		Low voltage	
				Volts	No.	Volts	No.
<b>NIAGARA</b>							
N1455	Fletcher dist. sta.....	Dec. 1922	P. outdoor	26,400	1	4,000	2
N1445	Forest dist. sta.....	Feb. 1917	H. brick	26,400	1	4,000	2
N1441	Oil Springs dist. sta.....	Dec. 1917	P. outdoor	26,400	1	4,000	3
N1448	Perch dist. sta.....	Nov. 1922	P. outdoor	26,400	1	575	1
N1443	Petrolia dist. sta.....	April 1916	G. brick	26,400	2	4,000	5b
N1435	Ridgetown dist. sta.....	Dec. 1915	H. brick	26,400	1	4,000	3a
N1437	Thamesville dist. sta.....	Oct. 1915	H. brick	26,400	1	4,000	1
N1432	Tilbury dist. sta.....	April 1915	G. brick	26,400	1	4,000	2
N1439	Wallaceburg dist. sta.....	Nov. 1923 Feb. 1915 June 1924	outdoor G. brick	26,400	1	4,000	5
N1446	Watford dist. sta.....	Sept. 1917	P. outdoor	26,400	2	4,000	2
N 15	Essex trans. sta.....	Aug. 1914	T. S. brick	110,000	2	26,400	8
N1542	Amherstburg dist. sta.....	Feb. 1919	special	26,400	2	4,000	3
N1538	Belle River dist sta.....	Dec. 1922	P. outdoor	26,400	1	4,000	2
N1533	Can. Salt Co., dist. sta.....	Nov. 1917	special	26,400	2	176	2
N1546	Cottam dist. sta.....	Oct. 1915	P. outdoor	26,400	1	115/230	1
N1547	Essex dist. sta.....	Oct. 1914	P. outdoor	26,400	1	2,300	1
N1543	Harrow dist. sta.....	Jan. 1914	P. outdoor	26,400	1	2,300	1
N1544	Kingsville dist. sta.....	Jan. 1914	special	26,400	2	4,000	3
N1545	Leamington dist. sta.....	Aug. 1915	special	26,400	1	4,000	3
J 98-1	Essex County Sys. res. equip.....						
N 16	York trans. sta.....	Oct. 1919	outdoor	110,000	1	13,200	1
N1631	Etobicoke dist. sta.....	Sept. 1918	special	13,200	2	2,300 2,300 4,000	6
N1639	Etobicoke Twp. dist. sta....	Feb. 1923	at York T.S.	13,200	1	4,000	1
N1634	Woodbridge dist. sta.....	Dec. 1914	E. brick	13,200	1	4,000	3
N 17	Hamilton trans. sta.....	Oct. 1922	outdoor	110,000	2	13,200	4
N17D31	Saltfleet dist. sta.....	Feb. 1922	P. outdoor	13,200	1	4,000	1
N 20	Queenston gen. sta.....	Jan. 1922	concrete special	110,000	6	12,000	....
				13,200	1	2,300	....
N98-1	Niagara System res. equip.						
N98-2	" " " "						
N98-3	" " " "						
N98-6	" " " "						
N98-8	" " " "						
N98-13	" " " "						

Note.—For subnotes *a*, *b*, *c*, etc., see end of table.



DETAILS AS OF OCTOBER 31, 1924—Continued

Transformers										
Active								Spare		
No. of banks	No. of units	Make of units	Unit kv-a.	Phase rating of unit	Total kv-a.	Banks connected		Single phase except where otherwise stated		
						H.V.	L.V.	No.	Make	Unit kv-a.
SYSTEM—25 CYCLES—Continued										
1	1	M.E. Co.	150	3	150	△	Y			
	3	C.W. Co.	75	1	225	△	Y			
{1	1	C.W. Co.	150	3	150	△	Y			
1	1	M.E. Co.	75	3	75	△	Y			
1	3	C.G.E. Co.	75	1	225	△	△			
1	3	P.E. Co.	300	1	900	△	Y			
1	3	P.E. Co.	150	1	450	△	Y			
1	3	C.W. Co.	75	1	225	△	Y			
1	3	C.G.E. Co.	100	1	300	△	Y			
1	3	C.W. Co.	75	1	225	△	Y			
1	3	P.E. Co.	150	1	450	△	Y			
1	1	C.C.W. Co.	1,500	3	1,500	Y	Y			
1	1	M.E. Co.	150	3	150	△	Y			
2	6	C.G.E. Co.	5,000	1	30,000	Y	△			
{1	3	P.E. Co.	100	1	300	△	Y			
1	1	P.E. Co.	300	3	300	△	Y			
1	1	P.E. Co.	150	3	150	△	Y			
2	6	M.E. Co.	750	1	4,500	△	6φ			
1	1	M.E. Co.	25	1	25	.....	.....			
1	1	P.E. Co.	150	3	150	△	△			
1	1	M.E. Co.	75	3	75	△	△			
1	3	C.W. Co.	75	1	225	△	Y			
1	3	P.E. Co.	150	1	450	△	Y			
.....	1	M.E. Co.	75	3	75	26400m 13200△	4000Y 2300△			
1	3	C.G.E. Co.	5,000	1	15,000	Y	△	1	C.G.E. Co.	5,000
{2	2	C.C.W. Co.	1,500	3	3,000	Y	△			
{1	1	C.W. Co.	1,500	3	1,500	Y	△			
1	1	C.C.W. Co.	1,500	3	1,500	△	Y			
{1	1	P.E. Co.	300	3	300	△	Y			
{1	1	E.E. Co.	300	3	300	△	Y			
1	3	C.G.E. Co.	75	1	225	△	Y			
1	1	P.E. Co.	150	3	150	△	Y			
2	6	C.W. Co.	5,000	1	30,000	Y	△			
1	1	M.E. Co.	400	3	400	Y	Y			
{5	15	C.W. Co.	15,000	1	225,000	Y	△			
{1	3	C.W. Co.	18,330	1	54,990	Y	△			
1	1	C.C.W. Co.	1,500	3	1,500	△	△			
.....	4	C.W. Co.	750	1	3,000	63500m	13200m			
1		G.E. Co.	750	1	750	63500m	13200m			
.....	4	G.E. Co.	750	1	3,000	63500m	13200m			
.....	1	M.E. Co.	75	3	75	26400m 13200△	4000Ym 2300/575△			
.....	1	M.E. Co.	750	3	750	26400Y 13200m	4000Ym 2300/575△			
.....	1	C.C.W. Co.	1,500	3	1,500	26400Y 13200m	4000Ym 2300△			

TABLE OF TRANSFORMING STATION

Station				Circuits			
System number	Name	Date placed in operation	Type of building	High voltage		Low voltage	
				Volts	No.	Volts	No.
NIAGARA							
N98-14	Niagara System res. equip.						
N98-15	" " " "						
N98-20	" " " "						
N98-21	" " " "						
N98-24	" " " "						
N98-25	" " " "						
N98-26	" " " "						
N98-27	" " " "						
N98-28	" " " "						
N98-29	" " " "						
N98-30	" " " "						
N98-31	" " " "						
N98-32	" " " "						
N98-33	" " " "						
N98-36	" " " "						
N98-37	" " " "						
N98-38	" " " "						
N98-39	" " " "						

Note.—For subnotes *a, b, c*, etc., see end of table.

DETAILS AS OF OCTOBER 31, 1924—Continued

Transformers										
Active							Spare			
No. of banks	No. of units	Make of units	Unit kv-a.	Phase rating of unit	Total kv-a.	Banks connected		Single phase except where otherwise stated		
						H.V.	L.V.	No.	Make	Unit kv-a.

SYSTEM—25 CYCLES—Continued

.....	1	M.E. Co.	50	3	50	26400m 13200△	4000Ym 2300/575△	.....	.....	.....
.....	2	C.W. Co.	1,250	1	2,500	63500m 13200	26400m	.....	.....	.....
.....	1	M.E. Co.	50	3	50	26400m 13200△	4000Ym 2300/575△	.....	.....	.....
.....	{ 1	M.E. Co.	300	3	300	26400m 13200△	4000Ym 2300/575△	.....	.....	.....
.....		M.E. Co.	150	1	450	26400m 13200	2300m 575	.....	.....	.....
.....	4	G.E. Co.	750	1	3,000	63500m	13200m	.....	.....	.....
.....	7	C.G.E. Co.	2,850	1	19,950	63500m	26400m 13200	.....	.....	.....
.....	3	G.E. Co.	1,250	1	3,750	63500m	13200m	.....	.....	.....
.....	3	P.E. Co.	150	1	450	13200m	2200m 1100/550	.....	.....	.....
.....	{ 2	G.E. Co.	750	1	1,500	63500m	13200m	.....	.....	.....
.....		C.G.E. Co.	1,250	1	1,250	63500m	13200m	.....	.....	.....
.....		C.G.E. Co.	75	1	225	13200m	2300/575m	.....	.....	.....
.....		C.C.W. Co.	300	3	300	13200△	4000Ym 2300/575△	.....	.....	.....
.....	1	P.E. Co.	300	3	300	13200△	4000Ym 2300/575△	.....	.....	.....
.....	3	C.G.E. Co.	20	1	60	13200m	2300/575m	.....	.....	.....
.....	3	P.E. Co.	25	1	75	13200m	2300/575m	.....	.....	.....
.....	3	C.W. Co.	1,250	1	3,750	63500m	26400m 13200	.....	.....	.....
.....	3	C.G.E. Co.	75	1	225	13200m 6600	2300/575m	.....	.....	.....
.....	1	M.E. Co.	25	1	25	26400m 13200	230/115m	.....	.....	.....
.....	1	M.E. Co.	75	3	75	26400△ 13200m	4000Ym 2300/575△	.....	.....	.....
.....	3	C.G.E. Co.	300	1	900	23440m 11720	4200m 2100	.....	.....	.....



TABLE OF TRANSFORMING STATION

Station				Circuits			
System number	Name	Date placed in operation	Type of building	High voltage		Low voltage	
				Volts	No.	Volts	No.
ONTARIO POWER COMPANY							
A 2	O.P. Co. trans. sta. ....	1905	brick special	60,000	2	12,000	13
A245	Dain dist. sta. ....	1917 <i>b</i>	.....	30,000	2	.....	.....
A250	Empire Cotton dist. sta. ....	1917 <i>b</i>	.....	12,000	2	110/220	.....
A 3	Port Colborne trans. sta. ....	Sept. 1913 <i>b</i>	special	30,000	2	12,000	4
A331	Port Colborne dist. sta. ....	1917 <i>b</i>	in Pt. Colborne T.S.	.....	.....	2,300	2
A332	Government Elev. dist. sta.	1908	.....	12,000	2	560	.....
I 1	Thorold dist. sta. ....	{ 1918 1924	brick special	12,000	1	2,300	1
				12,000	1	2,300	1
A98-1	O.P. Co. res. equipment. ....						
A98-2	" " " " .....						
A98-3	" " " " .....						
TORONTO POWER COMPANY							
B 2	Niagara Falls trans. sta. ....	<i>a</i>	brick special	90,000	2	12,000	5
				60,000	2	.....	.....
B 3	Davenport trans. sta. ....	<i>a</i>	brick special	90,000	2	12,000	29
B 332	Keele St. dist. sta. ....	<i>a</i>	concrete special	12,000	1	.....	.....
B 335	Can. Wire & Cable Co. ....	<i>a</i>	.....	12,000	1	600	1
B 5	Thorold trans. sta. ....	<i>a</i>	brick special	60,000	1	12,000	5
B 6	Welland trans sta. ....	<i>a</i>	brick special	60,000	1	12,000	3
GEORGIAN BAY SYSTEM—							
S 1	Midland dist. sta. ....	Aug. 1917	brick special	22,000	3	2,300	4
S 2	Penetang dist. sta. ....	Nov. 1911	brick special	22,000	1	2,300	4
S 4	Barrie dist. sta. ....	Mar. 1913	brick special	22,000	1	2,300	8
S 5	Collingwood dist. sta. ....	1913	brick special	22,000	4	2,300	2
S 6	Coldwater dist. sta. ....	1913	G. brick	22,000	1	2,300	1
S 7	Elmvale dist. sta. ....	May 1913	G. brick	22,000	1	2,300	1
S 10	Stayner dist. sta. ....	Sept. 1913	G. brick	22,000	1	4,000	2
S 11	Midland (G.T.R. Tiffin) dist. sta. ....	Sept. 1922	brick special	22,000	2	575	1
S 17	Pt. McNicoll dist. sta. ....	Feb. 1921	P. outdoor	2,200	1	575	1
S 18	Waubashene dist. sta. ....	Nov. 1914	E. brick	22,000	1	2,300	1
S 19	Victoria Harbor dist. sta. ....	July 1914	brick special	22,000	1	2,300	1
S 20	Big Chute gen. sta. ....	July 1914	concrete special	22,000	3	2,200	0
S 21	C.P.R., Pt. McNicoll. ....	July 1916	brick special	22,000	2	575	1
S 23	Phelpston dist. sta. ....	Jan. 1924	P. outdoor	22,000	2	110/220	1
S 32	Alliston dist. sta. ....	May 1918	H. brick	22,000	1	4,000	1
S 33	Beeton dist. sta. ....	July 1918	P. outdoor	22,000	1	4,000	1
S 34	Tottenham dist. sta. ....	Sept. 1918	P. outdoor	22,000	1	4,000	1
S 35	Cookstown dist. sta. ....	April 1918	P. outdoor	22,000	1	4,000	1
S 36	Thornton dist. sta. ....	Oct. 1918	P. outdoor	22,000	1	4,000	1
S 37	Bradford dist. sta. ....	Sept. 1918	H. brick modified	{ 22,000 4,000	{ 1 1	575 575	1 1
S98-2	Severn div. res. equip. ....	Mar. 1921	.....				
S98-4	" " " " .....	Feb. 1922	.....				
S98-5	" " " " .....	Mar. 1923	.....				
S98-6	" " " " .....	July 1923	.....				

Note.—For subnotes a, b, c, etc., see end of table.

DETAILS AS OF OCTOBER 31, 1924—Continued

Transformers										
Active							Spare			
No. of banks	No. of units	Make of units	Unit kv-a.	Phase rating of unit	Total kv-a.	Banks connected		Single phase except where otherwise stated		
						H.V.	L.V.	No.	Make	Unit kv-a.

SYSTEM—25 CYCLES

4	12	W.E. & M. Co.	3,000	1	36,000	Y	△			
2	6	C.W. Co.	3,000	1	18,000	Y	△			
1	2	P.E. Co.	75	1	150	△	△			
1	3	C.C.W. Co.	400	1	1,200	△	△			
1	3	C.W. Co.	1,500	1	4,500	△	△			
1	3	C.G.E. Co.	150	1	450	Y	△	3	P.T. Co.	25
	2	P.T. Co.	50	1	100	△	△			
	1	C.C.W. Co.	60	1	60	△	△			
1	3	P.E. Co.	300	1	900	△	△			
1	3	C.C.W. Co.	667	1	2,000	△	△			
1	3	C.G.E. Co.	250	1	750	△	△			
.....	2	C.W. Co.	75	1	150	12000m	230m			
.....	3	P.T. Co.	25	1	75	12000m	2200m			
.....	3	C.W. Co.	175	1	425	12000m	2200m			

SYSTEM—25 CYCLES

2	6	C.G.E. Co.	6,000	1	36,000	Y	△			
3	9	C.G.E. Co.	2,670	1	24,030	△	△			
2	6	C.G.E. Co.	5,500	1	33,000	Y	△			
2	2	G.E. Co.	400	3	800	△	△			
1	3	M.E. Co.	250	1	750	△	△			
2	6	C.G.E. Co.	2,400	1	14,400	△	△			
1	3	C.G.E. Co.	2,400	1	7,200	△	△			

SEVERN DIVISION—60 CYCLES

1	3	M.E. Co.	300	1	900	△	△			
1	3	M.E. Co.	300	1	900	△	△			
{1	2	P.E. Co.	350	1	700	T	+			
	2	C.G.E. Co.	350	1	700	T	+			
1	3	C.G.E. Co.	400	1	1,200	△	△			
1	3	C.W. Co.	40	1	120	△	△			
1	3	C.W. Co.	75	1	225	△	△			
1	3	C.W. Co.	100	1	300	△	Y			
1	3	C.G.E. Co.	400	1	1,200	△	△			
1	3	F.T. Co.	25	1	75	△	△			
1	2	C.G.E. Co.	25	1	50	V	V			
1	1	C.W. Co.	100	1	100					
2	6	C.W. Co.	600	1	3,600	△	△	1	C.W. Co.	600
1	3	C.G.E. Co.	500	1	1,500	△	△			
1	1	M.E. Co.	10	1	10	1	1			
1	3	P.E. Co.	75	1	225	△	Y			
1	1	M.E. Co.	75	3	75	△	Y			
1	1	M.E. Co.	75	3	75	△	Y			
1	1	C.G.E. Co.	75	3	75	△	Y			
1	1	M.E. Co.	25	3	25	△	Y			
1	1	F.T. Co.	150	3	150	△	△			
1	3	C.G.E. Co.	15	1	45	Y	△			
.....	1	C.G.E. Co.	25	1	25	22000m	2300/575m			
.....	1	C.G.E. Co.	50	3	50	22000△	2300/575△			
.....	3	C.C.W. Co.	200	1	600	22000m	2200m			
.....	{1	C.G.E. Co.	25	1	25	22000m	2300/575m			
.....		M.E. Co.	25	1	25	22000m	2300/575m			

TABLE OF TRANSFORMING STATION

Station				Circuits			
System number	Name	Date placed in operation	Type of building	High voltage		Low voltage	
				Volts	No.	Volts	No.
GEORGIAN BAY SYSTEM							
E 1	Eugenia gen. sta.....	Nov. 1915	brick special	22,000	6	4,000	2
E 2	Owen Sound dist. sta.....	Nov. 1915	brick special	22,000	2	2,300	4
E 3	Chatsworth dist. sta.....	Nov. 1915	H. brick	22,000	1	4,000	1
E 4	Chesley dist. sta.....	June 1916	G. brick	22,000	1	4,000	1
E 5	Dundalk dist. sta.....	Nov. 1915	H. brick	22,000	1	4,000	1
E 7	Durham dist. sta.....	Nov. 1915	H. brick	20,000	1	4,000	2
E 8	Hanover dist. sta.....	1918	G. brick mod- ified	22,000	1	4,000 2,300	3 1
E 9	Mt. Forest dist. sta.....	Nov. 1915	G. brick	22,000	1	4,000	1
E10	Shelburne dist. sta.....	Sept. 1917	H. brick	22,000	1	4,000	2
E12	Orangeville dist. sta.....	Feb. 1917	G. brick	22,000	1	4,000	2
E13	Grand Valley dist. sta.....	Aug. 1917	H. brick mod.	22,000	1	4,000	2
E14	Meaford dist. sta.....	Feb. 1924	P. outdoor	22,000	1	4,000	2
E15	Kilsyth dist. sta.....	Jan. 1918	P. outdoor	22,000	1	4,000	1
E17	Elmwood dist. sta.....	May 1918	P. outdoor	22,000	1	4,000	1
E18	Priceville dist. sta.....	Mar. 1921	P. outdoor	22,000	2	2,200	1
E21	Teeswater dist. sta.....	May 1921	H. brick	22,000	1	4,000	1
E22	Wingham dist. sta.....	April 1921	G. brick	22,000	1	2,300	4
E24	Holyrood dist. sta.....	April 1921	outdoor special	22,000	1	4,000	2
E25	Kincardine dist. sta.....	May 1921	special brick	22,000	1	2,200	2
E26	Walkerton Quarry dist. sta..	Feb. 1921	frame	22,000	1	2,300	2
E29	Durham, Russell dist. sta...	May 1922	P. outdoor	22,000	2	575	1
E31	Mt. Forest freq. chg. sta....	Oct. 1923	sheet metal	26,400 22,000	1 1	2,300 2,300	1 1
E98-2	Eugenia div. res. equip.....	Oct. 1924	.....	.....	.....	.....	.....

**GEORGIAN BAY SYSTEM**

W 1	Wasdells Falls gen. sta.....	Sept. 1914	concrete special	22,000	2	2,300	0
W 2	Beaverton dist. sta.....	Sept. 1914	G. brick special	22,000	1	4,000	2
W 3	Cannington dist. sta.....	Sept. 1914	G. brick	22,000	1	4,000	3
W 6	Kirkfield dist. sta.....	April 1920	H. concrete	22,000 4,000	1 1	575 575	1 1
W 7	Greenbank dist. sta.....	Sept. 1922	P. outdoor	22,000	1	4,000	1
W 9	Pinedale dist. sta.....	Sept. 1923	P. outdoor	22,000	1	2,300	1
W98-1	Wasdells div. res. equip....	Aug. 1924	.....	.....	.....	.....	.....

**MUSKOKA**

M 1	South Falls gen. sta.....	Aug. 1916	brick special	22,000	1	6,600	1
M 2	Huntsville dist. sta.....	Aug. 25, 1916	G. brick special	22,000	1	2,300	2

**ST. LAWRENCE**

L 1	Cornwall trans. sta.....	May 1919	brick	110,000	2	44,000	2
L 2	Prescott dist. sta.....	Mar. 1914	G. outdoor	44,000	1	2,400	3
L 3	Brockville dist. sta.....	April 1915	brick	44,000	1	2,400	3
L 4	Winchester dist. sta.....	July 1914	G. brick	26,400	1	4,000	1
L 5	Chesterville dist. sta.....	Aug. 1919	S. outdoor mod.	26,400	1	4,160	2

Note.—For subnotes a, b, c, etc., see end of table.



## DETAILS AS OF OCTOBER 31, 1924—Continued

Transformers										
Active							Spare			
No. of banks	No. of units	Make of units	Unit kv-a.	Phase rating of unit	Total kv-a.	Banks connected		Single phase except where otherwise stated		
						H.V.	L.V.	No.	Make	Unit kv-a.

## EUGENIA DIVISION—60 CYCLES

2	6	C.W. Co.	900	1	5,400	△	△	.....	.....	.....
1	3	C.W. Co.	550	1	1,650	△	△	.....	.....	.....
1	3	C.G.E. Co.	25	1	75	△	Y	.....	.....	.....
1	3	M.E. Co.	150	1	450	△	Y	.....	.....	.....
1	3	C.G.E. Co.	50	1	150	△	Y	.....	.....	.....
1	3	C.G.E. Co.	50	1	150	△	Y	.....	.....	.....
2	2	P.E. Co.	750	3	1,500	△	Y	.....	.....	.....
1	1	P.E. Co.	750	3	750	△	△	.....	.....	.....
1	3	C.G.E. Co.	100	1	300	△	Y	.....	.....	.....
1	3	W.E. & M.	100	1	300	△	Y	.....	.....	.....
1	3	G.E. Co.	100	1	300	△	Y	.....	.....	.....
1	3	C.G.E. Co.	75	1	225	△	Y	.....	.....	.....
1	1	M.E. Co.	300	3	300	△	Y	.....	.....	.....
1	1	M.E. Co.	75	3	75	△	Y	.....	.....	.....
1	1	M.E. Co.	50	3	50	△	Y	.....	.....	.....
1	2	G.E. Co.	10	1	20	V	V	.....	.....	.....
1	3	G.E. Co.	50	1	150	△	Y	.....	.....	.....
1	3	C.G.E. Co.	250	1	750	△	△	.....	.....	.....
1	3	M.E. Co.	50	1	150	△	Y	.....	.....	.....
1	3	C.W. Co.	125	1	375	△	△	.....	.....	.....
1	3	C.G.E. Co.	100	1	300	△	△	.....	.....	.....
1	3	M.E. Co.	100	1	300	△	△	.....	.....	.....
1	3	P.E. Co.	350	1	1,050	△	△	.....	.....	.....
1	3	M.E. Co.	300	1	900	△	△	.....	.....	.....
.....	1	C.G.E. Co.	75	3	75	22000 △	4000Ym 2300/575 △	.....	.....	.....

## WASDELLS DIVISION—60 CYCLES

2	6	C.W. Co.	150	1	900	△	△	1	C.W. Co.	150
1	3	C.W. Co.	100	1	300	△	Y	.....	.....	.....
1	3	C.W. Co.	100	1	300	△	Y	.....	.....	.....
1	3	P.E. Co.	75	1	225	△	△	.....	.....	.....
1	3	M.E. Co.	10	1	30	Y	△	.....	.....	.....
1	1	C.G.E. Co.	150	3	150	△	Y	.....	.....	.....
1	1	M.E. Co.	75	3	75	△	Y	.....	.....	.....
.....	3	G.E. Co.	100	1	300	22000m	2200m	.....	.....	.....

## SYSTEM—60 CYCLES

1	3	C.G.E. Co.	400	1	1,200	△	△	.....	.....	.....
1	3	C.G.E. Co.	300	1	900	△	△	.....	.....	.....

## SYSTEM—60 CYCLES

1	3	C.G.E. Co.	5,000	1	15,000	Y	Y	{1 4	C.G.E. Co.	5,000
1	1	P.E. Co.	300	3	300	Y	△	.....	.....	.....
2	2	C.G.E. Co.	750	3	1,500	Y	△	.....	.....	.....
1	3	C.G.E. Co.	50	1	150	△	Y	.....	.....	.....
1	1	C.G.E. Co.	300	3	300	△	Y	.....	.....	.....

TABLE OF TRANSFORMING STATION

Station				Circuits			
System number	Name	Date placed in operation	Type of building	High voltage	Low voltage		
				Volts	No.	Volts	No.
ST. LAWRENCE							
L 6	Cornwall Howard Smith						
	Paper Co. dist. sta.....	June 1919	brick	44,000	1	600	7
L 7	Williamsburg dist. sta.....	Dec. 1920	outdoor	26,400	1	2,400	1
L13	Martintown dist. sta.....	May 1921	R. outdoor	44,000	1	4,160	1
L14	Apple Hill dist. sta.....	Feb. 1921	outdoor	44,000	1	4,160	2
L15	Alexandria dist. sta.....	Jan. 1921	S. outdoor mod.	44,000	1	4,160	1
L21	Morrisburg dist. sta.....	Oct. 1922	outdoor	44,000	1	26,400	1
L98-1	St. Lawrence Sys. res. equip.	Nov. 1921	.....	.....	.....	.....	.....
L98-2	“ “ “ “	Sept. 1923	.....	.....	.....	.....	.....
L98-3	“ “ “ “	Oct. 1923	.....	.....	.....	.....	.....

## RIDEAU

H 1	High Falls gen. sta. ....	May 1920	concrete	26,400	1	4,160	...
H 2	Perth dist. sta. ....	Feb. 1919	G. brick mod.	26,400	1	2,300	3
H 3	Smiths Falls dist. sta. ....	Sept. 1918	stone	26,400	1	2,400	5
H 5	Carleton Place dist. sta. ....	May 1920	brick	26,400	1	2,200	4
H 8	Balderson dist. sta. ....	Sept. 1921	R. outdoor	26,400	1	2,400	1
H 9	Kemptville dist. sta. ....	Nov. 1921	R. outdoor	26,400	1	4,160	1

## THUNDER BAY

P 1	Nipigon gen. sta. ....	Dec. 1920	concrete special	110,000	2	12,000	4
P 2	Pt. Arthur trans. sta. ....	Dec. 1920	gunite special	110,000	1	22,000	3
		April 1924	outdoor	110,000	1	22,000	2

## CENTRAL ONTARIO AND TRENT

C 3	Sidney trans. sta. ....	1911c	brick special	44,000	3	6,600	5
C 6	Brighton dist. sta. ....	1911c	brick special	44,000	1	2,400	1
C 7	Colborne dist. sta. ....	1912c	brick special	44,000	1	2,400	1
C 8	Dam No. 8 gen. sta. ....	Sept. 1924	stone and out-door	44,000	2	6,600	....
C 8	Dam No. 8 constr. sta. ....	Sept. 1923	P. outdoor	44,000	....	2,400	....
C 9	Dam No. 9 constr. sta. ....	Dec. 1923	P. outdoor	44,000	1	2,400	1
C10	Ranney Falls gen. sta. ....	1922	concrete and stone	44,000	1	6,600	....
C11	Seymour gen. sta. ....	1909c	stone special	44,000	2	2,400	3
C13	Cobourg dist. sta. ....	1911c	brick special	44,000	1	2,400	4
C14	Heely Falls gen. sta. ....	1914c	brick special	44,000	3	6,600	1
C16	Port Hope dist. sta. ....	1912c	brick special	44,000	1	2,400	3
C18	Auburn gen. sta. ....	1912c	brick special	6,600	1	2,400	2
C19	Auburn trans. sta. ....	1912c	brick special	44,000	1	6,600	2
C20	Peterboro dist. sta. ....	1912c	met. frame	.....	.....	.....	.....
C22	Newcastle dist. sta. ....	1911c	brick special	44,000	1	2,400	1

Note.—For subnotes *a*, *b*, *c*, etc., see end of table.

DETAILS AS OF OCTOBER 31, 1924—Continued

Transformers									
Active							Spare		
No. of banks	No. of units	Make of units	Unit kv-a.	Phase rating of unit	Total kv-a.	Banks connected		Single phase except where otherwise stated	
						H.V.	L.V.	No.	Make

SYSTEM—60 CYCLES—Continued

2	2	C.G.E. Co.	1,500	3	3,000	Y	Δ			
1	1	M.E. Co.	50	1	50	.....	.....			
1	1	P.E. Co.	150	3	150	Y	Y			
1	1	P.E. Co.	300	3	300	Y	Y			
1	1	P.E. Co.	300	3	300	Y	Y			
1	1	P.E. Co.	300	3	300	Y	Δ			
.....	1	C.G.E. Co.	750	3	750	44000Y	4160Y <sub>m</sub>			
						25400Δ	2400/600 Δ			
.....	1	M.E. Co.	300	3	300	44000Y	4160Y <sub>m</sub>			
						25400Δ	2400/600 Δ			
.....	3	C.G.E. Co.	150	1	450	26400 <sub>m</sub>	2300 <sub>m</sub>			
						13200	575			

SYSTEM—60 CYCLES

3	3	P.E. Co.	750	3	2,250	Δ	Y	...	...	...
1	3	C.G.E. Co.	200	1	600	Δ	Δ	...	...	...
1	1	C.G.E. Co.	750	3	750	Δ	Δ	...	...	...
1	3	P.T. Co.	250	1	750	Δ	Δ	...	...	...
1	1	M.E. Co.	<i>d</i> 30	1	30	..	..	...	...	...
1	1	P.E. Co.	150	3	150	Δ	Y	...	...	...

SYSTEM—60 CYCLES

2	6	C.G.E. Co.	8,000	1	48,000	Y	Δ	1	C.G.E. Co.	8,000
1	3	C.G.E. Co.	5,000	1	15,000	Y	Δ	1	C.G.E. Co.	5,000
1	3	C.G.E. Co.	5,000	1	15,000	Y	Δ	.....		

SYSTEM—60 CYCLES

3	3	C.W. Co.	3,000	3	9,000	Y	Δ			
1	3	C.G.E. Co.	100	1	300	Δ	Δ			
1	1	C.G.E. Co.	100	1	100	..	..			
3	3	P.E. Co.	2,000	3	6,000	Y	Δ			
1	1	C.G.E. Co.	300	3	300	Y	Δ			
1	1	C.G.E. Co.	300	3	300	Y	Δ			
2	2	C.G.E. Co.	4,500	3	9,000	Y	Δ			
4	4	C.W. Co.	1,125	3	4,500	Y	Y			
{1	1	C.G.E. Co.	300	3	300	Y	Δ			
{1	1	C.G.E. Co.	750	3	750	Y	Δ			
3	3	C.W. Co.	3,750	3	11,250	Y	Δ			
{1	1	C.G.E. Co.	750	3	750	Y	Δ			
{1	1	C.G.E. Co.	300	3	300	Y	Δ			
1	3	C.G.E. Co.	200	1	600	Δ	Δ			
2	2	C.G.E. Co.	1,875	3	3,750	Y	Δ			
{1	1	C.G.E. Co.	750	3	750	Δ	Δ			
{2	6	C.G.E. Co.	250	1	1,500	Δ	Δ			
1	1	C.G.E. Co.	100	1	100	.....	.....			



TABLE OF TRANSFORMING STATION

Station				Circuits			
System number	Name	Date placed in operation	Type of building	High voltage		Low voltage	
				Volts	No.	Volts	No.
CENTRAL ONTARIO AND TRENT							
C23	Bowmanville dist. sta.....	1912c	brick special	44,000	1	4,160	4
C24	Oshawa dist. sta.....	1911c	brick special	44,000	1	4,160	7
C25	Millbrook dist. sta.....	1912c	brick	44,000	1	2,400	1
C26	Omamee dist. sta.....	Jan. 1918	outdoor	44,000	1	4,160	1
C29	Lindsay dist. sta.....	1912c	brick special	44,000	1	4,160	1
				11,000	2	4,160	1
C30	Fenelon Falls gen. sta.....	c	brick special	11,000	2	600	1
C31	Norwood dist. sta.....	Jan. 1921	S. outdoor mod.	44,000	1	4,160	2
C32	Deloro dist. sta.....	1909c	brick special	44,000	1	600	1
C33	Madoc dist. sta.....	1909c	brick special	44,000	1	4,160	3
C34	Sulphide dist. sta.....	1910c	brick special	44,000	1	4,160	3
C36	Pulp Mill dist. sta.....	1909c	concrete special	44,000	1	2,400	3
C37	Trenton dist. sta.....		brick special	6,600	2	4,160	2
C38	Belleville dist. sta.....	1910c	brick special	44,000	1	2,400	6
C39	Belleville Cement Co. dist. sta.....	1911c	brick special	44,000	1	600	...
C40	Pt. Anne Quarries dist. sta...	1910c	brick special	44,000	1	600	4
C41	Lehigh Cement dist. sta.....	1911c	brick special	44,000	2	600	...
C42	Deseronto dist. sta.....	1911c	brick special	44,000	1	2,400	3
C43	Napanee dist. sta.....	1912c	brick special	44,000	1	4,160	3
C44	Kingston dist. sta.....	1917	brick special	44,000	1	2,400	5
C45	Wellington dist. sta.....	Mar. 1919	S. outdoor	44,000	1	4,160	2
C46	Picton dist. sta.....	Mar. 1919	S. outdoor	44,000	1	2,400	2
C47	Marmora dist. sta.....	Dec. 1920	outdoor	44,000	1	2,400	1
C49	Warkworth dist. sta.....	Sept. 1923	outdoor	44,000	1	2,400	1
NIPISSING							
Z 1	Nipissing gen. sta.....	1909c	brick special	22,000	1	2,200	1
Z 3	Callander dist. sta.....	1909c	sheet metal	22,000	1	2,200	1
Z 4	North Bay dist. sta.....	1909c	brick special	22,000	1	2,200	1
Z 6	Bingham Chute dist. sta....	Dec. 1923	brick special	22,000	1	2,200	1
Z98-2	Nipissing sys. res. equip....						

a. Operation taken over by the Hydro-Electric Power Commission November 1, 1922.

b. Operation taken over by the Hydro-Electric Power Commission August 1, 1917.

c. Operation taken over by the Hydro-Electric Power Commission March 1916.

d. Transformer good for 50 kv-a. at 44,000-volts.

m. Voltage rating.

DETAILS AS OF OCTOBER 31, 1924—Continued

Transformers										
Active								Spare		
No. of banks	No. of units	Make of units	Unit kv-a.	Phase rating of unit	Total kv-a.	Banks connected		Single phase except where otherwise stated		
						H.V.	L.V.	No.	Make	Unit kv-a.
SYSTEM—60 CYCLES—Continued										
2	2	C.G.E. Co.	750	3	1,500	Y	Y			
{ 2	2	C.G.E. Co.	1,500	3	3,000	Y	Y	1	C.G.E. Co.	750
2	2	C.G.E. Co.	750	3	1,500	Y	Y			
1	1	C.G.E. Co.	100	1	100					
1	3	M.E. Co.	40	1	120	Δ	Y			
2	2	C.G.E. Co.	750	3	1,500	Y	Y			
1	1	C.G.E. Co.	750	3	750	Y	Y			
2	6	C.G.E. Co.	135	1	810	Δ	Δ	{ 1	C.G.E. Co.	135
1	1	P.E. Co.	300	3	300	Y	Y	{ 1	C.G.E. Co.	750
1	3	C.W. Co.	250	1	750	Δ	Δ			
3	3	C.G.E. Co.	300	3	900	Y	Y			
2	2	C.C.W. Co.	240	3	480	Y	Y			
2	2	C.W. Co.	1,125	3	2,250	Y	Y			
{ 2	6	C.G.E. Co.	100	1	600	Δ	Y			
{ 1	1	C.G.E. Co.	750	3	750	Δ	Y			
3	3	C.G.E. Co.	750	3	2,250	Y	Δ	1	C.G.E. Co.	750
{ 1	1	C.G.E. Co.	750	3	750	Y	Δ			
{ 1	1	C.G.E. Co.	100	1	100					
2	2	C.G.E. Co.	300	3	600	Y	Δ			
5	5	C.G.E. Co.	750	3	3,750	Y	Δ			
2	2	C.G.E. Co.	300	3	600	Y	Δ			
2	2	C.G.E. Co.	300	3	600	Y	Y			
3	3	C.G.E. Co.	750	3	2,250	Y	Δ			
1	1	C.G.E. Co.	300	3	300	Y	Y			
1	1	C.G.E. Co.	300	3	300	Y	Δ			
1	1	M.E. Co.	50	1	50					
1	1	M.E. Co.	50	1	50					
SYSTEM—60 CYCLES										
1	3	P.E. Co.	900	1	2,700	Δ	Δ			
1	3	C.G.E.	50	1	150	Δ	Δ			
1	3	C.W. Co.	450	1	1,350	Δ	Δ			
1	3	C.W. Co.	300	1	900	Δ	Δ			
.....	{ 1	A.C.B.	50	1	50	22000m	2200m			
	{ 1	C.G.E. Co.	25	1	25	22000m	2200m			





## APPENDIX III

### TRANSMISSION LINE RECORDS

Corrected to October 31, 1924

including

Summaries of data respecting mileage of transmission lines built or acquired by the Hydro-Electric Power Commission. The sizes, materials, lengths and weights of conductors, and other particulars of the 110,000-volt steel-tower transmission lines, the wood-pole transmission lines and the telephone lines. Also detailed descriptions of the individual lines classified under the various systems.

### TRANSMISSION LINE RECORDS

The total mileage of lines built and acquired by the Commission up to October 31, 1924, for the various systems, excepting rural 4,000-volt districts, is indicated in the following table:

#### TOTAL MILEAGE OF TRANSMISSION LINES

System	Miles
Niagara system—110,000-volt steel-supported transmission lines (N)	532.81
Thunder Bay system—110,000-volt steel-supported transmission lines (P).....	70.59
Niagara system—46,000-volt and less, steel and wood supported (see table following) (N).....	1,199.92
Ontario Power Company (A).....	90.69
Toronto Power Company (B).....	246.73
Georgian Bay system (G).....	615.39
Severn division (S).....	178.54
Eugenia division (E).....	330.60
Wasdells division (W).....	106.25
Muskoka system (M).....	26.32
St. Lawrence system (L).....	149.31
Rideau system (H).....	81.62
Thunder Bay system—110,000-volt wood supported (P).....	83.65
Central Ontario and Trent system (C).....	494.32
Nipissing system (Z).....	24.70
Total.....	3,616.05

NOTE: Of the above the Niagara system, the Ontario Power Company and the Toronto Power Company are operated at 25 cycles. The other systems are operated at 60 cycles.

**STEEL-TOWER AND WOOD-POLE TRANSMISSION LINES  
TOTAL MILEAGES AND WEIGHTS OF CONDUCTORS—ALL SYSTEMS**

Type of construction	Miles of conductor			Weight in pounds		
	Completed to Oct. 31, 1923	Completed Oct. 31, 1923, to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923, to Oct. 31, 1924	Under construction Oct. 31, 1924
110,000-volt steel-tower lines.....	2,951.61	270.39	370.47	8,698,400	971,877	486,547
High-tension telephone lines.....	2,046.64	.....	.....	395,150	.....	.....
Wood-pole lines built by Commission.....	8,224.20	185.55	96.60	7,161,971	204,607	149,668
Toronto Power Co.....	878.46	.....	.....	2,486,661	.....	.....
Ontario Power Co.....	495.45	.....	.....	928,151	.....	.....
Total.....	14,596.36	455.94	467.07	19,670,333	1,176,484	636,215

NOTE.—This table does not include rural power districts.

**HIGH TENSION TELEPHONE LINE  
TOTAL MILEAGE AND WEIGHT OF TELEPHONE LINES**

Size and Material	Wire miles	Weight in pounds
13,100 c.m. copper.....	996.96	208,364
10,400 c.m. copper.....	701.14	116,389
8,230 c.m. copper.....	107.68	14,213
6,530 c.m. copper.....	32.18	3,378
16,509 c-c. steel.....	82.70	20,361
No. 12 B.W.G. galv. iron.....	3.98	656
25-pairs No. 19 paper insulated, lead-covered copper.....	105.00	28,828
50-pair No. 22 paper-insulated lead-covered, copper.....	17.00	2,961
Total.....	2,046.64	395,150

**110,000-VOLT TRANSMISSION LINES**

Lines completed and under construction to October 31, 1924. Completed 613.40 miles, under construction 119.62 miles. Total, 733.02 miles.

**TOTAL MILEAGE OF 110,000-VOLT LINES AND NUMBER OF TOWERS**

	To Oct. 31, 1923	Oct. 31, 1923 to Oct. 31, 1924	Total to Oct. 31, 1924
Total mileage completed.....	523.04	80.36	603.40
Total mileage under construction.....	.....	119.62	119.62
Total mileage of single-circuit lines completed.....	62.21	70.50	132.80
Total mileage of double-circuit lines completed.....	460.83	9.77	470.60
Total mileage of double-circuit lines under construction.....	.....	3.87	3.87
Total mileage of single-circuit lines under construction.....	.....	115.75	115.75
Number of towers erected.....	5,021	538	5,559
Number of towers under construction.....	.....	16	16

**TOTAL WEIGHTS AND MILEAGE OF CONDUCTORS**

Cable	MILES OF CONDUCTOR			WEIGHT IN POUNDS		
	Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, 1924	Under construction Oct. 31, 1924
A.C.S.R. * Copper...	2,003.37 948.24	58.62 211.77	370.47 .....	5,881,064 2,817,336	241,271 730,606	486,547 .....
Total..	2,951.61	270.39	370.47	8,698,400	971,877	486,547

\*Aluminum conductor, steel-reinforced.

## 110,000-VOLT STEEL-TOWER TRANSMISSION LINES—Continued

## SIZE, MATERIAL, LENGTH AND WEIGHT OF POWER CONDUCTORS

Size and material	Miles of conductor			Weight in pounds			Miles of single-circuit lines			Miles of double-circuit lines			Total circuit miles single- and double-circuit lines completed Oct. 31, 1924
	Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, 1924	Under construction Oct. 31, 1924	
605,000 c.m., a.c. s-r.	304.20	50.76	23.22	1,252,694	209,030	55,593	....	....	....	50.70	8.46	3.87	59.16
500,000 c.m., a.c. s-r.	236.52	7.86	....	970,205	32,241	4,879	....	....	....	39.42	1.31	....	40.73
336,400 c.m., a.c. s-r.	571.14	....	....	1,592,338	....	....	....	....	....	95.19	....	....	95.19
312,000 c.m., a.c. s-r.	583.08	....	....	1,507,261	....	....	23.90	....	....	85.23	....	....	109.13
266,800 c.m., a.c. s-r.	308.43	....	....	558,566	....	....	38.31	....	....	32.25	....	....	70.56
167,800 c.m., a.c. s-r.	....	....	347.25	....	....	426,075	....	....	115.75	....	....	115.75	....
211,600 c.m., copper	331.38	211.77	....	1,137,627	730,606	....	....	70.59	....	55.23	....	....	125.82
167,800 c.m., copper	616.86	....	....	1,679,709	....	....	....	....	....	102.81	....	....	102.81
Total.....	2,951.61	270.39	370.47	8,698,400	971,877	486,547	62.21	70.59	115.75	460.83	9.77	119.62	603.40

NOTE.—a.c. s-r.—aluminum conductors, steel-reinforced. Weights include steel.



## WOOD-POLE TRANSMISSION LINES

### TOTAL MILEAGE OF WOOD-POLE LINES BUILT BY THE COMMISSION

In operation October 31, 1924

System	Miles
Niagara system.....	1,137.22
Ontario Power Company system.....	.....
Toronto Power Company system.....	.....
Georgian Bay system.....	615.39
Sewern division.....	178.54
Eugenia division.....	330.60
Wasdells division.....	106.25
Muskoka system.....	26.32
St. Lawrence system.....	149.31
Rideau system.....	81.62
Central Ontario and Trent system.....	153.20
	2,163.06
110,000-volt, wood-pole lines—Thunder Bay system.....	83.65
Total.....	2,246.71

## WOOD-POLE LINES COMPLETED AND UNDER CONSTRUCTION

For Year Ended October 31, 1924

### MILEAGES AT VARIOUS VOLTAGES

Voltages	Miles completed during year	Miles under construction at October 31, 1924	Total miles
110,000	8.63	.....	8.63
44,000	6.48	.....	6.48
38,000	.....	32.15	32.15
26,400	21.90	0.05	21.95
22,000	14.50	.....	14.50
13,200	6.28	.....	6.28
12,000	1.55	.....	1.55
Total.....	59.34	32.20*	91.54

\*Lines in Rural power districts not included in the above.

### MILEAGES FOR THE VARIOUS SYSTEMS

System	Miles
Niagara system.....	29.78
Ontario Power Company system.....	.....
Toronto Power Company system.....	.....
Georgian Bay system.....	14.50
Sewern division.....	.....
Eugenia division.....	14.50
Wasdells division.....	.....
Muskoka system.....	32.15
St. Lawrence system.....	.....
Rideau system.....	.....
Thunder Bay system.....	8.63
Central Ontario and Trent system.....	6.48
Total.....	91.54

Span miles: single circuit, 89.03, double circuit, 2.51, total, 91.54.

## MATERIAL AND MILEAGE OF CONDUCTORS

## Power Conductors:

	MILES
Aluminum cable, steel-reinforced.....	73.56
Aluminum.....	2.45
Copper.....	5.08
Steel.....	9.45
Total.....	91.54

## Ground Wires and Cables:

1/4" steel cable.....	1.50
Total.....	1.50

## Telephone Wire:

3 x 12 B.W.G. galvanized steel.....	32.15
3 x 13 B.W.G. galvanized steel.....	8.63
26,250 c.m. aluminum cable, steel-reinforced.....	11.00
10,400 c.m. copper-clad steel.....	2.45
16,500 c.m. copper-clad steel.....	1.50
No. 9 B.W.G. galvanized iron.....	26.67
Total.....	82.40

## Aluminum Conductor:

211,600 c.m. aluminum cable, steel-reinforced.....	41.41
66,373 c.m. aluminum cable, steel-reinforced.....	23.23
105,534 c.m. aluminum cable, steel-reinforced.....	8.92
500,000 c.m. aluminum.....	2.45
Total.....	76.01

## Copper Conductor:

133,079 c.m. copper.....	5.70
115,000 c.m. copper.....	0.32
41,742 c.m. copper.....	0.06
Total.....	6.08

## Steel Conductor:

5/16" galv. steel.....	9.45
Total.....	9.45

## WOOD-POLE TRANSMISSION AND TELEPHONE LINES

## TOTAL MILEAGE OF LINES AND NUMBER OF POLES

Lines	Miles completed		
	To Oct. 31, 1923	Oct. 31, 1923 to Oct. 31, 1924	Totals to Oct. 31, 1924
Low-tension lines completed.....	2,198.95	59.34	2,258.29
Low-tension lines under construction.....	.....	32.20	32.20
Single-circuit lines completed.....	1,709.88	56.83	1,766.71
Double-circuit lines completed.....	462.86	2.51	465.37
Three-circuit lines completed.....	5.74	.....	5.74
Four-circuit.....	20.47	.....	20.47
Single-circuit telephone lines completed.....	1,607.26	50.25	1,657.51
Double-circuit telephone lines completed.....	68.20	.....	68.20
Three-circuit telephone lines completed.....	0.76	.....	0.76
Telephone lines under construction.....	.....	32.20	32.20
<b>Poles and Towers</b>			
Number of poles erected.....	81,446	1,945	83,391
Number of towers erected.....	428	.....	428
Number of poles under construction.....	.....	432	432

## TOTAL MILEAGE AND WEIGHT OF CABLE AND WIRE

Cable and wire	Miles of conductor			Weight in pounds		
	Completed to Oct. 31, 1923	Com- pleted Oct. 31, 1923 to Oct. 31, 1924	Under con- struction Oct. 31, 1924	Completed to Oct. 31, 1923	Com- pleted Oct. 31, 1923 to Oct. 31, 1924	Under con- struction Oct. 31, 1924
Aluminum: Transmission.....	3,512.67	14.70	.....	2,558,513	36,456	.....
Steel-reinforced } Transmission..	2,574.09	124.08	96.60	2,044,792	98,405	149,668
aluminum } Telephone.....	499.07	22.00	.....	94,943	4,224	.....
Copper wire: Transmission...	1,341.99	18.42	.....	1,819,915	39,128	.....
Telephone.....	137.16	7.90	0.10	22,741	.....	15
Copper-clad steel: Telephone..	1,244.76	7.90	0.10	210,182	1,489	.....
Galv. iron wire: Transmission..	167.28	.....	.....	95,852	.....	.....
Telephone.....	1,402.04	53.34	.....	441,604	16,268	.....
Galv. steel cable: Transmission	628.17	28.35	.....	642,899	30,618	.....
Telephone...	348.58	17.26	64.30	142,587	6,472	31,828
Total.....	11,855.81	286.05	161.00	8,074,028	233,060	181,511

NOTE: This table does not include the 110,000-volt, steel-tower and telephone lines of the Niagara or Thunder Bay systems.



**WOOD-POLE TRANSMISSION LINES—Continued**  
**MILEAGE TABULATED ACCORDING TO VOLTAGE AND NUMBER OF CIRCUITS**

Voltage	Single-circuit totals			Double-circuit totals			Three-circuit totals			Four-circuit totals			1, 2, 3, and 4-circuit totals			
	Com- pleted to Oct. 31, 1923	Com- pleted Oct. 31, 1923, to Oct. 31, 1924	Under con- struc- tion Oct. 31, 1924	Com- pleted to Oct. 31, 1923	Com- pleted Oct. 31, 1923, to Oct. 31, 1924	Under con- struc- tion Oct. 31, 1924	Com- pleted to Oct. 31, 1923	Com- pleted Oct. 31, 1923, to Oct. 31, 1924	Under con- struc- tion Oct. 31, 1924	Com- pleted to Oct. 31, 1923	Com- pleted Oct. 31, 1923, to Oct. 31, 1924	Under con- struc- tion Oct. 31, 1924	Com- pleted to Oct. 31, 1923	Com- pleted Oct. 31, 1923, to Oct. 31, 1924	Under con- struc- tion Oct. 31, 1924	Com- pleted to Oct. 31, 1924
110,000	75.61	8.63	...	...	...	...	...	...	...	...	...	...	75.61	8.63	...	84.24
46,000	295.05	6.48	32.15	...	...	...	...	...	...	15.53	...	...	316.22	6.48	32.15	322.70
44,000	...	...	...	...	...	...	...	...	...	...	...	...	2.00	...	...	2.00
40,000	...	...	...	...	...	...	...	...	...	1.10	...	...	491.58	21.90	0.05	513.48
38,000	...	...	...	...	...	...	...	...	...	...	...	...	449.09	14.50	...	463.59
30,000	337.95	19.45	0.05	151.05	2.45	...	1.48	...	...	...	...	...	392.44	6.28	...	398.72
26,400	259.07	14.50	...	189.26	...	...	0.76	...	...	3.84	...	...	49.40	1.55	...	50.95
22,000	275.55	6.22	...	109.55	0.06	...	3.50	...	...	...	...	...	16.28	...	...	16.28
13,200	44.03	1.55	...	5.37	...	...	...	...	...	...	...	...	367.16	...	...	367.16
12,000	16.28	...	...	...	...	...	...	...	...	...	...	...	26.41	...	...	26.41
6,600	...	...	...	...	...	...	...	...	...	...	...	...	12.76	...	...	12.76
4,000	367.16	...	...	...	...	...	...	...	...	...	...	...	2,198.95	59.34	32.20	2,258.29
2,300	26.41	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2,200	12.76	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total....	1,709.88	56.83	32.20	462.86	2.51	...	5.74	...	...	20.47	...	...	2,198.95	59.34	32.20	2,258.29

NOTE.—This sheet is based on route miles.

# WOOD-POLE GAUGE, LENGTH AND WEIGHT

Size and material of conductor	Wire miles of conductor			Weight in pounds				Miles Single-circuit lines		
	Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, '24	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, 1924	Under construction Oct. 31, 1924		Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, '24	Under construction Oct. 31, 1924
66,400 c.m., alum....	461.85			151,949						
105,534 c.m., alum....	543.21			284,642				110.49		
13,399 c.m., alum....	116.58			76,360				13.48		
167,805 c.m., alum....	2,155.95			1,798,062				276.31		
173,000 c.m., alum....	6.30			5,632						
211,600 c.m., alum....	215.40			226,170				12.00		
345,000 c.m., alum....	9.18			15,698						
500,000 c.m., alum....		14.70			36,456					
26,250 c.m., a.c. s-r.	9.69			1,860				3.23		
66,400 c.m., a.c. s-r.	1,202.58	69.09	0.60	586,858	33,715	292		361.20	23.03	0.20
105,534 c.m., a.c. s-r.	482.49	26.76		369,587	20,765			153.03	8.92	
41,742 c.m., a.c. s-r.	32.10			9,822				10.70		
105,530 c.m., a.c. s-r.	6.00			4,656						
125,000 c.m., a.c. s-r.	233.34			214,673				77.78		
133,079 c.m., a.c. s-r.	106.35			103,798				21.73		
167,805 c.m., a.c. s-r.	129.15			158,467				31.39		
211,600 c.m., a.c. s-r.	359.70	28.23	96.00	559,692	43,925	149,376		119.14	9.41	32.00
336,400 c.m., a.c. s-r.	4.98			13,884				1.66		
366,000 c.m., a.c. s-r.	7.71			21,495				2.57		
26,250 c.m. copper..	525.28			222,063				179.48		
41,742 c.m. copper..	190.02	0.36		129,214	244			60.92		
52,634 c.m. copper..	6.48			5,560						
66,373 c.m. copper..	74.52			80,631				18.04		
83,694 c.m. copper..	9.00			12,258				3.00		
115,000 c.m. copper..		0.96			1,795				0.32	
350,000 c.m. copper..	0.39			2,214				0.13		
105,534 c.m. copper..	217.53			374,152				50.71		
133,079 c.m. copper..	98.67	17.10		214,051	37,039			32.89	5.70	
211,600 c.m. copper..	226.68			782,046						
3 x 13 B. & S. G. galv. steel.....	10.60			3,975				10.60		
4 x 12 B. & S. G. galv. steel.....	7.12			4,699						
3 x 12 B. & S. G. galv. steel.....	45.24			22,394				12.13		
1/4" galv. steel.....	1,450.30	1.50		1,000,707	1,035			65.43	1.50	
9/32" galv. steel.....	404.87			344,139				28.47		
5/16" galv. steel.....	497.44	28.35		537,235	30,618			176.88	9.45	
7/16" galv. steel.....	31.50			65,520						
16,509 c.m. c-c steel.	0.89			218						
No. 9 B.W.G. iron...										
No. 10 B.W.G. iron...	5.53			1,382						
No. 6 B.W.G. iron...	298.27			170,909				55.76		
Total.....	10,182.89	187.05	96.60	8,576,672	205,642	149,668		1,889.15	58.33	32.20

NOTE.—a.c. s-r.—Aluminum cable, steel-reinforced; c-c steel—copper-clad steel.

**TRANSMISSION LINES—Continued**  
**OF CONDUCTORS, INCLUDING GROUND CABLES**

Miles Double-circuit lines				Miles— Three-circuit lines				Miles Four-circuit lines				Total circuit miles of single, double, three and four circuit lines completed to Oct. 31, 1924
Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, 1924	Under construction Oct. 31, 1924		Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, 1924	Under Construction Oct. 31, 1924		Completed to Oct. 31, 1923	Completed Oct. 31, 1923 to Oct. 31, 1924	Under construction Oct. 31, 1924		
30.38				2.19								32.57
34.81				0.08				0.18				145.56
12.69												26.17
218.97								1.10				496.38
1.05												1.05
29.90												41.90
1.53												1.53
	2.45											2.45
												3.23
19.83												404.06
3.90												165.85
												10.70
1.00												1.00
												77.78
6.86												28.59
5.83												37.22
0.38												128.93
												1.66
												2.57
												179.48
1.21	0.05											62.19
1.03												1.08
3.40												21.44
												3.00
												0.32
												0.13
10.90												61.61
												38.59
1.02								18.38				19.40
												10.60
												12.13
												66.93
												28.47
3.56												189.89
5.25												5.25
												55.76
393.55	2.51			2.27				19.66				2,365.47

NOTE.—This sheet is based on route and wire miles.



## TELEPHONE LINES

## MILEAGE AND SIZES OF WIRE USED ON TELEPHONE LINES

For Year Ended October 31, 1924

Section No.	Miles	Gauge and material
<b>Lines completed</b>		
C 69 x 2001	2.08	26,250 c.m. a.c. s-r.
N 266 x 36	1.50	16,509 c.m. c-c. steel.
N 481 x 51	1.58	No. 9 B.W.G. galvanized iron.
N 865 x 46	9.45	No. 9 B.W.G. galvanized iron.
N 1563 x 39	1.08	No. 9 B.W.G. galvanized iron.
N 15 x 1502	2.45	10,400 c.m. c-c. steel
N 1577 x 47	8.92	26,250 c.m. a.c. s-r.
N 1671 x 11	0.06	No. 9 B.W.G. galvanized iron.
E 64 x 14	14.50	No. 9 B.W.G. galvanized iron.
P 59 x 8	5.70	3 x 13" steel.
P 57 x 56	2.93	3 x 13" steel.
Total...	50.25	
<b>Lines under construction October 31, 1924</b>		
N 1501 x 20	0.05	10,400 c.m. c-c. steel.
G 4 x 6	32.00	3 x 12" steel.
M 54 x 4	0.15	3 x 13" steel.
Total....	32.20	

**TELEPHONE LINES**  
**ERECTED ON WOOD POLE LINES CARRYING POWER CONDUCTORS**  
**Gauge, Length and Weight of Aluminum, Copper-clad Steel and Galvanized Iron Wire**

Size and material of wire	Miles of wire				Weight in pounds				Single-circuit mileage			Double-circuit mileage		Three-circuit mileage		1-2 & 3- circuit totals	
	Completed to Oct. 31, 1923	Completed Oct. 31, 1923	Under construction Oct. 31, 1924	Completed to Oct. 31, 1924	Completed to Oct. 31, 1923	Completed Oct. 31, 1923	Under construction Oct. 31, 1924	Completed to Oct. 31, 1924	Completed Oct. 31, 1923	Completed Oct. 31, 1923	Completed Oct. 31, 1923	Completed Oct. 31, 1923	Completed to Oct. 31, 1924	Under construction Oct. 31, 1924	Completed to Oct. 31, 1923		Under construction Oct. 31, 1924
16,509 c.m., c-c. steel. . . .	203.18	13.00	.....	206.18	49,779	735	.....	50,514	101.59	1.50	.....	.....	.....	.....	.....	.....	Completed to Oct. 31, 1924
10,400 c.m., c-c. steel. . . .	1,041.58	14.90	0.10	1,046.48	160,403	754	15	161,157	465.47	2.45	0.05	.....	.....	.....	0.76	.....	Completed to Oct. 31, 1923
10,400 c.m., copper. . . . .	137.16	.....	.....	137.16	22,741	.....	.....	22,741	68.58	.....	.....	.....	.....	.....	.....	.....	Completed to Oct. 31, 1923
No. 8 B.W.G. galv. iron. . .	5.70	.....	.....	5.70	2,155	.....	.....	2,155	2.85	.....	.....	.....	.....	.....	.....	.....	Completed to Oct. 31, 1923
No. 9 B.W.G. galv. iron. . .	1,327.39	53.34	.....	1,380.73	410,765	16,268	.....	427,033	650.79	26.67	.....	.....	.....	.....	.....	.....	Completed to Oct. 31, 1923
No. 10 B.W.G. galv. iron. . .	82.00	.....	.....	82.00	2,500	.....	.....	20,500	41.00	.....	.....	.....	.....	.....	.....	.....	Completed to Oct. 31, 1924
No. 12 B.W.G. galv. iron. . .	49.60	.....	.....	49.60	8,184	.....	.....	8,184	24.80	.....	.....	.....	.....	.....	.....	.....	Completed to Oct. 31, 1924
No. 3x12 B.&S.G. galv. stl. .	98.92	.....	64.30	98.92	48,965	.....	31,828	48,965	49.46	.....	32.15	.....	.....	.....	.....	.....	Completed to Oct. 31, 1923
No. 3x13 B.&S.G. galv. stl. .	249.66	117.26	.....	266.92	93,622	6,472	.....	100,094	124.83	8.63	.....	.....	.....	.....	.....	.....	Completed to Oct. 31, 1923
26,250 c.m., a.c. s-r. . . . .	436.42	22.00	.....	458.42	94,943	4,224	.....	99,167	79.89	11.00	68.20	.....	.....	.....	.....	.....	Completed to Oct. 31, 1924
Total. . . . .	3,631.61	100.50	64.40	3,732.11	912,057	28,453	31,843	940,510	1,609.26	50.25	32.20	68.20	.....	.....	0.76	.....	Completed to Oct. 31, 1924

NOTE.—For telephone lines generally on wood poles and serving 110,000-volt power lines see separate table.

## ONTARIO POWER COMPANY

### TABULATION OF TRANSMISSION AND TELEPHONE LINES

Total mileage of Ontario Power Company's lines.....	90.69
Total mileage of steel-tower lines.....	12.02
Total number of steel towers erected.....	145
Total number of poles erected.....	3,580
Total mileage of single-circuit lines.....	16.23
Total mileage of double-circuit lines.....	74.46

### SIZE, MATERIAL, LENGTH AND WEIGHT OF CONDUCTOR

Size and material	Span miles	Wire miles	Weight in pounds
<b>Aluminum conductor:</b>			
173,000 c.m.....	9.56	53.13	47,498
211,950 c.m.....	6.50	39.00	40,950
345,000 c.m.....	40.75	244.50	418,095
500,000 c.m.....	13.98	83.88	208,022
820,000 c.m.....	12.02	36.06	146,404
Total.....	82.81	456.57	860,969
<b>Steel-reinforced aluminum:</b>			
336,400 c.m.....	1.23	7.38	20,575
Total.....	1.23	7.38	20,575
<b>Copper conductor:</b>			
105,534 c.m. copper.....	0.36	2.16	3,715
133,079 c.m. copper.....	2.40	14.40	31,234
52,634 c.m. copper.....	3.44	12.24	10,502
26,250 c.m. copper.....	0.45	2.70	1,156
Total.....	6.65	31.50	46,607
<b>Telephone line—galvanized iron.....</b>	58.25	116.50	19,222
<b>Telephone line—copper.....</b>	11.51	23.02	2,417
Total.....	69.76	139.52	21,639

### TOTAL MILEAGE AND WEIGHT OF CABLE

Cable	Miles of cable	Weight in pounds
Aluminum.....	456.57	860,969
Aluminum, steel reinforced.....	7.38	20,575
Copper.....	31.50	46,607
Total.....	495.45	928,151



# ONTARIO POWER COMPANY LINES—Continued

## TOTAL MILEAGE AND WEIGHT OF TELEPHONE WIRE

Wire	Miles of wire	Weight in pounds
Galvanized iron.....	116.50	19,222
Copper.....	23.02	2,417
Total.....	139.52	21,639

## MILEAGE OF LINES TABULATED ACCORDING TO VOLTAGE AND NUMBER OF CIRCUITS

Voltage	Single-circuit lines total miles	Double-circuit lines total miles	Combined single- and double-circuit lines total miles
60,000.....	12.02	.....	12.02
30,000.....	.....	21.74	21.74
12,000.....	4.21	52.72	56.93
Total.....	16.23	74.46	90.69

## SIZE, LENGTH AND WEIGHT OF CONDUCTORS IN TRANSMISSION LINES

Size and material	Miles of conductor	Weight in pounds	Miles of single-circuit lines	Miles of double-circuit lines	Miles of single and double-cir- cuit lines
173,000 c.m. aluminum..	53.13	47,498	1.41	8.15	9.56
211,950 c.m. aluminum..	39.00	40,950	.....	6.50	6.50
345,000 c.m. aluminum..	244.50	418,095	.....	40.75	40.75
500,000 c.m. aluminum..	83.88	208,022	.....	13.98	13.98
820,000 c.m. aluminum..	36.06	146,404	12.02	.....	12.02
336,400 c.m. a.c. s-r.....	7.38	20,575	.....	1.23	1.23
105,534 c.m. copper.....	2.16	3,715	.....	0.36	0.36
133,079 c.m. copper.....	14.40	31,234	.....	2.40	2.40
52,634 c.m. copper.....	12.24	10,502	2.80	0.64	3.44
26,250 c.m. copper.....	2.70	1,156	.....	0.45	0.45
Total.....	495.45	928,151	16.23	74.46	90.69

## SIZE, LENGTH AND WEIGHT OF TELEPHONE LINES

Size and material	Wire miles	Weight in pounds	Single-circuit lines total miles
No. 12 B.W.G. galvanized iron wire.....	116.50	19,222	58.25
6,529 c.m. copper wire.....	23.02	2,417	11.51
Total.....	139.52	21,639	69.76

## TORONTO POWER COMPANY

### TABULATION OF TRANSMISSION AND TELEPHONE LINES

Total mileage of Toronto Power Company's transmission lines.....	191.65
Total number of poles erected.....	4,034
Total number of steel towers erected.....	2,067
Total mileage of single-circuit lines.....	80.48
Total mileage of double-circuit lines.....	111.17
Total mileage of single-circuit telephone lines.....	376.56

### SIZE, MATERIAL, LENGTH AND WEIGHT OF CONDUCTORS

Size and material	Route miles	Wire miles	Weight in pounds
<b>Copper conductor:</b>			
190,000 c.m.....	220.53	661.59	2,095,727
133,000 c.m.....	22.31	66.93	145,238
115,000 c.m.....	35.35	106.05	198,207
66,370 c.m.....	14.63	43.89	47,489
Total.....	292.82	778.46	2,486,661
<b>Telephone line—copper.....</b>	183.36	366.72	60,875
<b>Telephone line—copper-clad steel.....</b>	4.92	9.84	3,862
Total.....	188.28	376.56	64,737

### TOTAL MILEAGE AND WEIGHT OF TRANSMISSION CABLE

	Miles of cable	Weight in pounds
	878.46	2,486,661
Total.....	878.46	2,486,661

### TOTAL MILEAGE AND WEIGHT OF TELEPHONE WIRE

	Miles of wire	Weight in pounds
	376.56	64,737
Total.....	376.56	64,737

# **TORONTO POWER COMPANY LINES—Continued**

## **MILEAGE OF LINES TABULATED ACCORDING TO VOLTAGE AND NUMBER OF CIRCUITS**

Voltage	Single-circuit total miles	Double-circuit total miles	Combined single- and double-circuit total miles
90,000 volts.....	.....	84.00	84.00
60,000 volts.....	12.23	9.00	21.23
12,000 volts.....	68.25	18.17	86.42
Total.....	80.48	111.17	191.65

## **SIZE, LENGTH AND WEIGHT OF CONDUCTORS IN TRANSMISSION LINES**

Size and material	Miles of conductor	Weight in pounds	Miles of single-circuit lines	Miles of double-circuit lines	Miles of single and double-cir- cuit lines
190,000 c.m. copper.....	661.59	2,095,727	22.29	104.12	126.41
115,000 c.m. copper.....	106.05	198,207	21.25	7.05	28.30
133,000 c.m. copper.....	66.93	145,238	22.31	.....	22.31
66,400 c.m. copper.....	43.89	47,489	14.63	.....	14.63
Total.....	878.46	2,486,661	80.48	111.17	191.65

## **SIZE, LENGTH AND WEIGHT OF TELEPHONE LINES**

Size and material	Wire miles	Weight in pounds	Single-circuit total
66,373 c.m. copper.....	366.72	60,875	183.36
4,110 c.m. copper-clad steel.....	3.84	235	1.92
4,170 c.m. copper-clad steel.....	6.00	3,627	3.00
Total.....	376.56	64,737	188.28



DESCRIPTION  
**NIAGARA SYSTEM—110,000-VOLT,**

New section number	Old section number	From	To	Aver. span feet	Miles	No. of towers
N1 x 54a	A	Niagara trans. sta.	Allenburg jct. tower No. A66	550	6.07	66
N54 x 2a	A	Allenburg jct. tower No. A66	Dundas trans. sta.	550	45.36	504
N 1 x 2	AA	Niagara trans. sta.	Dundas trans. sta.	630	50.00	451
N 2 x 13	Pt. B1 & B2	Dundas trans. sta.	Cooksville trans. sta.	550	27.20	295
N13 x 16	Pt. B1 & B3	Cooksville trans. sta.	York trans. sta.	550	6.73	74
N16 x 3b	Pt. B1 & B4	York trans. sta.	Toronto trans. sta.	550	5.10	62
N 2 x 52e	BB	Dundas trans. sta.	Nelson jct. tower No. BB64	630	6.75	64
N52 x 13e	BB	Nelson jct. tower No. BB64	Cooksville trans. sta.	630	20.47	177
N13 x 16e	BB	Cooksville trans. sta.	York trans. sta.	630	6.72	59
N 2 x 12	C	Dundas trans. sta.	Brant trans. sta.	550	22.65	251
N12 x 10	D	Brant trans. sta.	Woodstock trans. sta.	550	21.83	231
N10 x 4	E	Woodstock trans. sta.	London trans. sta.	550	25.45	278
N 2 x 5	F	Dundas trans. sta.	Guelph trans. sta.	550	25.26	268
N 5 x 6	P-1	Guelph trans. sta.	Preston trans. sta.	550	10.73	115
N 6 x 7	P-2	Preston trans. sta.	Kitchener trans. sta.	550	8.14	91
N 7 x 8c	H	Kitchener trans. sta.	Stratford trans. sta.	550	25.09	267
N 8 x 9d	I	Stratford trans. sta.	St. Mary's trans. sta.	550	13.53	147
N 9 x 4d	J	St. Mary's trans. sta.	London trans. sta.	550	23.59	250
N 4 x 11	K	London trans. sta.	St. Thomas trans. sta.	550	13.38	140
N11 x 14	L	St. Thomas trans. sta.	Kent trans. sta.	660	58.04	486
N14 x 15	M	Kent trans. sta.	Essex trans. sta.	660	44.77	374
N21 x 50	..	Queenston trans. sta.	Structure at forebay	.....	0.04	structure
N50 x 51	..	Structure at forebay	Niagara trans. sta.	550	5.48	58
N50 x 53	..	Structure at forebay	Saltfleet jct. tower No. 241	880	37.69	241
N53 x 17	..	Saltfleet jct. tower No. 241	Hamilton trans. sta.	750	1.92	14
N50 x 54	..	Structure at forebay	Allenburg jct. tower No. A66	880	9.16	58
N53 x 52	..	Saltfleet jct. tower No. 241	Nelson jct. tower No. BB64	880	8.46	51
N16 x 66	..	York trans. sta.	Islington jct. tower No. 15	550	1.31	15
Total mileage.....				.....	530.90	5,087
<b>Lines under</b>						
N16 x 3	..	York trans. sta.	Humber river....	880	2.25	16
N11 x 18f	..	St. Thomas trans. sta.	St. Clair trans. sta.	500	115.75	.....

a Section "A" has 50 miles of 312,000-c.m. steel reinforced aluminum conductors and 1.43

b Section "N16 x 3" has 1.30 miles of 312,000 c.m. steel-reinforced aluminum conductor and

c Section "N7 x 8" has 23.90 miles of 312,000 c.m. steel-reinforced aluminum conductor and

d Section "N8 x 9" and "N9 x 4" single-circuit towers only. All other sections double-

e Sections "N2 x 52", "N52 x 13" and "N13 x 16" first circuit placed in operation July 9,

Sections "N66 x 82", "N82 x 32" and "N32 x 31" re-insulated only.

For inter-connected lines at 110,000 volts see Toronto Power Company's lines symbol "B."

N66 = B66.

f Wood Pole Line. a.c.s.-r. = Aluminum cable steel-reinforced.

## OF LINES

## 25-CYCLE, TRANSMISSION LINES

No. of circuits	Size and material of power cable*	Size and material of ground cable*	Date placed in operation	Size and material of original conductors*	Date of last stringing
2	312,000 c.m. a.c.s-r.	5/16" steel	Oct., 1910	4/0 aluminum	Dec., 1918
2	312,000 c.m. a.c.s-r.	5/16" steel	Oct., 1910	4/0 aluminum	Dec., 1918
2	211,600 c.m. copper	5/16" steel	Feb., 1915	211,600 c.m. copper	.....
2	312,000 c.m. a.c.s-r.	5/16" steel	Mar., 1911	3/0 aluminum	Oct., 1917
2	312,000 c.m. a.c.s-r.	5/16" steel	Mar., 1911	3/0 aluminum	Oct., 1917
2	312,000 c.m. a.c.s-r.	5/16" steel	Mar., 1911	3/0 aluminum	Oct., 1917
2	500,000 c.m. a.c.s-r.	5/16" steel	.....	500,000 c.m. a.c.s-r.	.....
2	500,000 c.m. a.c.s-r.	5/16" steel	.....	500,000 c.m. a.c.s-r.	.....
2	500,000 c.m. a.c.s-r.	5/16" steel	.....	500,000 c.m. a.c.s-r.	.....
2	336,400 c.m. a.c.s-r.	5/16" steel	Nov., 1910	3/0 aluminum	Oct., 1914
2	336,400 c.m. a.c.s-r.	5/16" steel	Nov., 1910	3/0 aluminum	Oct., 1914
2	336,400 c.m. a.c.s-r.	5/16" steel	Dec., 1910	3/0 aluminum	Oct., 1914
2	336,400 c.m. a.c.s-r.	5/16" steel	Oct., 1910	3/0 aluminum	June, 1915
2	266,800 c.m. a.c.s-r.	5/16" steel	Oct., 1910	3/0 aluminum	June, 1915
2	266,800 c.m. a.c.s-r.	5/16" steel	Oct., 1910	3/0 aluminum	June, 1915
1	312,000 c.m. a.c.s-r.	5/16" steel	Dec., 1910	3/0 aluminum	Dec., 1919
1	266,800 c.m. a.c.s-r.	5/16" steel	Dec., 1910	2/0 aluminum	June, 1915
1	266,800 c.m. a.c.s-r.	removed	Dec., 1910	3/0 aluminum	June, 1915
2	266,800 c.m. a.c.s-r.	5/16" steel	Dec., 1910	3/0 aluminum	Oct., 1913
2	167,800 c.m. copper	5/16" steel	Aug., 1914	167,800 c.m. copper	.....
2	167,800 c.m. copper	5/16" steel	Aug., 1914	167,800 c.m. copper	.....
6	605,000 c.m. a.c.s-r.	none	Jan., 1922	605,000 c.m. a.c.s-r.	.....
2	500,000 c.m. a.c.s-r.	7/16" steel	Jan., 1922	500,000 c.m. a.c.s-r.	.....
2	605,000 c.m. a.c.s-r.	5/16" steel	Oct., 1922	605,000 c.m. a.c.s-r.	.....
2	605,000 c.m. a.c.s-r.	5/16" steel	Oct., 1922	605,000 c.m. a.c.s-r.	.....
2	605,000 c.m. a.c.s-r.	5/16" steel	Sept., 1923	605,000 c.m. a.c.s-r.	.....
2	605,000 c.m. a.c.s-r.	5/16" steel	Apr., 1924	605,000 c.m. a.c.s-r.	.....
2	500,000 c.m. a.c.s-r.	5/16" steel	Aug., 1924	500,000 c.m. a.c.s-r.	.....

## construction

2	605,000 c.m. a.c.s-r.	5/16" steel	.....	.....	.....
1	3/0 a.c.s-r.	none	.....	.....	.....

miles of 211,600 c.m. copper.

3.80 miles of 211,600 c.m. copper from Humber river to Toronto transformer station.

1.19 miles of 266,800 c.m. steel reinforced aluminum conductor.

circuit towers.

1922, second circuit placed in operation Oct., 1923.

DESCRIPTION  
NIAGARA SYSTEM—

New section number	Old section number	From	To	Avg. height of pole in feet	Avg. span in feet	Miles
N 1 x 2	A	Niagara trans. sta.	Dundas trans. sta.	30	132	54.16
N 1 x 2	AA	Niagara trans. sta.	Dundas trans. sta.	30	132	50.00
N 2 x 13) N13 x 16) N16 x 3)	B	Dundas trans. sta.	Toronto city limits	30	132	35.87
N 2 x 12	C	Dundas trans. sta.	Brant trans. sta.	30	132	22.90
N12 x 10	D	Brant trans. sta.	Woodstock trans. sta.	30	132	21.53
N10 x 4	E	Woodstock trans. sta.	London trans. sta.	30	132	26.03
N 2 x 5	F	Dundas trans. sta.	Guelph trans. sta.	30	132	26.12
N 5 x 6	P-1	Guelph trans. sta.	Preston trans. sta.	30	132	12.78
N 6 x 7	P-2	Preston trans. sta.	Kitchener trans. sta.	30	132	9.09
N 7 x 8	H	Kitchener trans. sta.	Stratford trans. sta.	30	132	28.75
N 8 x 9	I	Stratford trans. sta.	St. Marys trans. sta.	30	132	15.28
N 9 x 4	J	St. Marys trans. sta.	London trans. sta.	30	132	27.81
N 4 x 11	K	London trans. sta.	St. Thomas trans. sta.	30	132	16.09
N11 x 14	L	St. Thomas trans. sta.	Kent trans. sta.	30	132	58.04
N14 x 15	M	Kent trans. sta.	Essex trans. sta.	30	132	44.77
N20 x 1	....	Queenston gen. sta.	Niagara trans. sta.	25	150	6.16
N20 x 25 <sup>a</sup>	....	Queenston gen. sta.	{ Ont. Power Co. N1, etc.	25	150	6.05
N17 x 26	....	Hamilton trans. sta.	Connect system "B"	25	150	1.37
N 1 x 99 <sup>c</sup>	....	Queenston gen. sta.	Ont. Power Co. & Elect. Development Co. trans. sta.	..	..	6.96
K 1 x 99	....	Jct. No. 142 (St. Clair ave.)	Chief Engineer's resi- dence	..	...	0.57
K 1 x 99	....	Jct. pole No. 142 (St. Clair ave.)	Oper. Engineer's resi- dence	..	...	1.42
K 1 x 99	....	Administration bld.	Strachan ave.	..	...	2.50
K 1 x 99	....	Administration bld.	Administration annex	..	...	0.34
K 1 x 99	....	Administration bld.	Davenport sta.	..	...	1.70
		Tor. Power Co. telephone lines.....				476.29 8.51
		Total mileage.....				484.80

<sup>a</sup> N20 x 25 carried on 204 O.P.Co. poles and 15 H.E.P.C. poles—Total of 219 poles.

<sup>c</sup> { Queenston gen. sta..... Ont. Power Co. trans. sta..... 5.72 miles.....  
 { Ont. Power trans. sta..... Elect. Development Co. .... 1.01 " .....  
 { Elect. Devel. Co. .... Ont. Power Co. forebay..... 0.23 " .....



## OF LINES

## HIGH-TENSION TELEPHONE LINES

No. of poles	No. of circuits	Number, size and material of conductors	Date placed in operation	No. of poles with attachments	Size of original wire	Remarks
1,949	4	{2-No. 9 B. & S.G. copper	1910			
1,405	1	{2-No. 10 B. & S.G. copper. No. 9 B. & S.G. copper	1915			
1,519	4b	{2-No. 9 B. & S.G. copper 1-No. 8 B. & S.G. c.c. steel 1-No. 10 B. & S.G. copper	1910	222 124 57		
957	2	{1-No. 9 B. & S.G. copper	1910	155		
888	2	{1-No. 10 B. & S.G. copper	1910	238		
1,074	2	{1-No. 9 B. & S.G. copper 1-No. 10 B. & S.G. copper	1910	448		
1,093	1	{1-No. 10 B. & S.G. copper 1-No. 11 B. & S.G. copper	1910			One circuit removed 1922
535	1	1-No. 10 B. & S.G. copper	1910	28		
400	1	1-No. 10 B. & S. G.copper	1910	406		
1,164	1	1-No. 10 B. & S.G. copper	1910	60		
634	1	1-No. 10 B. & S.G. copper	1910			
1,204	2	{1-No. 10 B. & S.G. copper	1910			
696	2	{1-No. 11 B. & S.G. copper 1-No. 10 B. & S.G. copper	1910	73		
2,370	2	{1-No. 12 B. & S.G. copper No. 9 B. & S.G. copper	1914	45		
1,829	2	No. 9 B. & S.G. copper	1914			
225	2	No. 9 B. & S.G. h-d. copper	1921			
15	4	No. 9 B. & S.G. h-d. copper	1922			
56	4	No. 8 B. & S.G. c-c. steel	1923			
...	15 prs. }	No. 19 Paper insul. lead covered copper. ....	1924			
30	50 prs. }					
74	1	No. 12 B.W.G. w-p. iron	1919			
....	25 prs.	No. 19 Paper insul. lead covered cop.	1915			
....	50 prs.	No. 22 Paper insul. lead covered cop.	1923			
....	25 prs.	No. 19 Paper insul. lead covered cop.	1924			

b 4 circuits and 2 phantom. d Carried on T.H.E.S. poles from city limits to Toronto trans. sta.  
 50 prs. No. 19 Paper-insul. lead-covered copper  
 15 prs. No. 19 Paper-insul. lead-covered copper  
 15 prs. No. 19 Paper-insul. lead-covered copper

**DESCRIPTION**  
**NIAGARA SYSTEM—**

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt-age
<b>Lines terminating</b>								
N. 161 x 1	L.T. 75	Jct. tower No. 308. ....	Welland mun. sta. ....	48	250	0.53	10	46,000
175 x 5		Pole No. 56. ....	Stamford Tp. sta. ....	35	150	0.69	26	12,000
166 x 6	207	Pole No. 100. ....	Niagara-on-the-Lake. .	30	125	7.83	334	12,000
169 x 9	156	Pole No. 79. ....	Niagara Falls mun. sta.	50	125	0.69	32	12,000
161 x 10a	74	Tower No. 308. ....	Union Carbide Co. ....	48	250	1.93	49	46,000
171 x 11	164	Tower No. 330. ....	Dunnville mun. sta. . .	35	176	21.54	672	46,000
176 x 16	168	Pole No. 52. ....	Queenston Quarry. ....	35	120	0.41	18	12,000
179 x 19		O.P. Co., Pt. Colborne, D.S. ....	Internat. Nickel Co. . .	40	125	1.00	46	30,000
171 x 4a	75	Jct. tower No. 330. ....	Electro Metals sta. ....	48	250	0.17	5	46,000
168 x 44		Merritton mun. sta. ....	St. Catharines mun. sta.	125	2.50	104	12,000	
26 x 127		Tor. Power Co. T.S. ....	Norton Co. ....	45	150	1.98	75	12,000

**Lines terminating**

N. 114 x 52	L.T. .....	St. Catharines mun. sta.	Beamsville dist. sta. . .	35	150	13.40	507	12,000
152 x 53		Beamsville dist. sta. . .	Grimsby dist. sta. ....	35	150	6.58	103	12,000
176 x 47	169	Pole No. 52. ....	St. Davids dist. sta. . .	35	120	0.44	20	12,000

**Lines terminating**

25 x 160		O.P.Co. dist. sta. ....	Jct. Pole No. 18 at Allen & Murray Sts. ....			0.31		12,000
170 x 61a	74	Tower No. 118. ....	Tower No. 303. ....	48	250	8.59	190	46,000
173 x 65	162	Pole No. 153. ....	Pole No. 205. ....	35	100	1.13	53	12,000
147 x 66	171	St. Davids D.S. ....	Pole No. 100. ....	35	120	0.55	26	12,000
101 x 71a	164-A	Welland tower No. 320.	Tower No. 330. ....	48	250	0.53	11	46,000
165 x 76	167	Pole No. 205. ....	Pole No. 52. ....	35	120	1.40	52	12,000
1 x 170a	73	Niagara trans sta. ....	Tower No. 118. ....	48	250	5.01	118	46,000
1 x 174	175	Niagara trans. sta. ....	Tower No. 118. ....			5.25		46,000
20 x 173		Queenston gen. sta. ....	Pole No. 146. ....	35	132	3.00	127	12,000
160 x 75b	162	Jct. pole No. 18. ....	Pole No. 56. ....	35	100	0.78	38	12,000
175 x 69	162	Pole No. 56. ....	Pole No. 79. ....	35	100	0.48	23	12,000
169 x 73	162	Pole No. 79. ....	Pole No. 153. ....	35	100	1.47	74	12,000

For inter-connected lines at 12,000 volts see Ontario Power Co., System "A."

aTowers.      bTwelve iron tel. line for A2 x 71 carried on these poles.

## OF LINES

## NIAGARA DISTRICT—SYMBOL N1

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
<b>at customers</b>							
2	2/0 copper.	8 c-c. steel	1/4" steel	{ O.B. San. & Keokuk, C.P. 356	6	July 11, 1914	Oct. 17, 1914
1	2 a.c.s-r.	9 galv. iron†	None	O.B. 12546	15	May 10, 1921	July 3, 1921
1	6 copper	None	None	.....	128	Built 1908, purchased 1919	1908
2	2/0 a.c.s-r.	10 c-c. steel	None	O.B. 12546	.....	Nov. 14, 1922	Feb. 8, 1923
4	4/0 copper	8 c-c. steel	1/4" steel	{ O.B. San. & Keokuk, C.P. 1725	.....	Mar. 15, 1914	Aug. 20, 1914
1	5/16" steel	9 galv. iron†	1/4" steel	J.D. Insul.	24	Aug. 17, 1917	Mar. 21, 1918
1	6 copper	None	None	Vic. 407	.....	Built by O.P. Co.	
2	105,530 a.c.s-r.	10 c-c. steel	None	C.P. 1162	.....	Aug., 1922	Sept. 20, 1922
1	2/0 copper	8 c-c. steel	1/4" steel	{ O.B. San. & Keokuk	.....	.....	Oct. 17, 1913
2	4/0 a.c.s-r.	6 a.c.s-r.	5/16" steel	C.P. 793	97	.....	Sept. 10, 1924
1	190,000 c.m.cop	None	3/8" steel	C.P. 793	.....	.....	1917

**at distributing stations**

1	2/0 a.c.s-r.	6 a.c.s-r.	None	Thom 2111	.....	Oct. 12, 1922	Jan. 8, 1923
1	2/0 a.c.s-r.	6 a.c.s-r.	None	Thom 2111	.....	Oct. 12, 1922	Feb. 10, 1923
1	6 copper	None	None	Vic. 407	.....	Built by O.P. Co.	

**at junctions**

2	2/0 copper	None	None	.....	.....	.....	.....
4	4/0 copper	8 c-c. steel	1/4" steel	{ O.B. San. & Keokuk, C.P. 106	.....	Mar. 15, 1914	Aug. 20, 1914
1	4 copper	12 galv. iron	None	Vic. 407	.....	Built by O.P. Co.	
1	6 copper	None	None	Vic. 407	.....	Built by O.P. Co.	
2	2/0 copper	8 c-c. steel	1/4" steel	{ O.B. San. & Keokuk, C.P. 1725	9	July 11, 1914	Oct. 17, 1914
1	6 copper	None	None	Vic. 407	.....	Built by O.P. Co.	
4	4/0 copper	8 c-c. steel	1/4" steel	{ O.B. San. & Keokuk, C.P. 356	.....	Mar. 15, 1914	Aug. 20, 1914
2	7/16" steel	None	None	C.P. 1725	.....	Nov. 13, 1917	.....
1	1 copper	None	None	C.P. 793	.....	.....	May 30, 1922
2	345,000 c.m. al.	12 galv. iron†	None	Vic. 407	31	Built by O.P. Co.	
2	345,000 c.m. al.	12 galv. iron†	None	Vic. 407	12	Built by O.P. Co.	
2	173,000 c.m. al.	12 galv. iron†	None	Vic. 407	83	Built by O.P. Co.	

\*All Browne &amp; Sharpe gauge except where otherwise noted.

†Birmingham Wire Gauge.



DESCRIPTION  
NIAGARA SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt- age
<b>Lines terminating</b>								
N. 2 x 201	L.T. 1	Dundas trans. sta.....	Hamilton mun. sta....	50½	206	2.85	73	13,200
264 x 2	118	Pole No. 82.....	Dundas mun. sta.....	55	120	0.12	7	13,200
270 x 10	50	Pole No. 941.....	Ont. Gypsum Co.....	40	120	5.19	229	13,200

<b>Lines terminating</b>								
271 x 34	129	Pole No. 328.....	Lynden dist. sta.....	35	132	4.53	185	13,200
266 x 35	38	Pole No. 260.....	Dom.Sew.Pipe Co.sta.	40	120	1.93	90	13,200
2 x 237	47	Dundas trans. sta.....	Caledonia dist. sta....	40	120	14.97	669	13,200
270 x 39	49	Pole No. 941.....	Hagersville dist. sta..	40	120	3.85	173	13,200
266 x 36		Pole No. 260.....	Waterdown dist. sta..	35	120	1.50	73	13,200
210 x 46		Lythmore (Ont. Gyp. Co.).....	Decewsville dist. sta..	35	175	3.15	105	13,200

<b>Lines terminating</b>								
2 x 263	43	Dundas trans. sta.....	Pole No. 69.....	40	120	1.21	65	13,200
263 x 64	118	Pole No. 69.....	Pole No. 82.....	55	120	0.25	13	13,200
2 x 266	38	Dundas trans. sta.....	Pole No. 260.....	40	120	5.44	260	13,200
237 x 70	48	Caledonia dist. sta.....	Pole No. 941.....	40	120	6.10	267	13,200
264 x 71	129	Pole No. 82.....	Pole No. 328.....	35	132	5.78	245	13,200

NOTE.—Other connected low-tension lines in this district are owned by the municipality.

**NIAGARA SYSTEM—**

N. 3355x27	L.T.	Can. Wire & Cable Co..	C.N. Rly. ....	40	135	0.32	12	12,000
3387x27		Can. N. Rly. jct. ....	C.N. Rly. ....					
3365x40a		Eglinton jct. ....	York Mills sta. ....	45	100	2.61	113	12,000
3382x42		Langstaff jct. ....	Bond Lake sta. ....	45	100	5.54		12,000
3342x46		Bond Lake sta. ....	Newmarket sta. ....	45	100	9.22	512	12,000
3346x49		Newmarket sta. ....	Keswick sta. ....	30	100	14.63	800	12,000
3382x52		Langstaff jct. ....	Mount Joy sta. ....	35	175	8.83	266	12,000
3340x82		York Mills sta. ....	Langstaff jct. ....	45	100	7.64		12,000
31x3387		Bridgman Ave. sta. ....	C.N. Rly. jct. ....					

NOTE.—Other connected low-tension lines in this district are owned by municipality.

a Carried on T.H.E.S. poles, from Eglinton Jct. pole No. 182 to City limits = 1.95 miles.  
For inter-connected Toronto Power Co. lines purchased by Commission, see page 584.

## OF LINES

## DUNDAS DISTRICT—SYMBOL N2

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at customers							
4	4/0 h-d. copper	10 c-c. steel	1/4" galv. steel	C.P. 133	.....	April 7, 1915	Oct. 4, 1915
2	4 copper	8 iron wire†	1/4" galv. steel	C.P. 136	.....	Feb. 25, 1915	Mar. 15, 1915
1	3/0 aluminium	10 copper	1/4" galv. steel	Thom 2041	.....	June 15, 1912	Sept. 20, 1912
		8 c-c. steel	1/4" galv. steel				

## at distributing stations

1	2 a.c.s-r.	9 galv. iron†	1/4" galv. steel	O.B. 12547	14	July 24, 1915	Oct. 22, 1915
1	2 aluminum	8 c-c. steel	1/4" galv. steel	Thom 2041	90	July 21, 1911	April 6, 1912
1	3/0 aluminium	8 c-c. steel	1/4" galv. steel	Thom 2041	47	May 10, 1912	Sept. 20, 1912
1	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	.....	Feb. 28, 1913	Aug. 15, 1913
1	2 aluminum	8 c-c. steel	1/4" galv. steel	C.P. 793	.....	Sept. 30, 1911	April 6, 1912
1	2 a.c.s-r.	None	None	C.P. 793	.....	Aug. 22, 1924	Oct. 27, 1924

## at junctions

2	4 copper	10 c-c. steel	1/4" galv. steel	Thom 2041	61	Dec. 1, 1911	Dec. 21, 1911
2	4 copper	10 copper	1/4" galv. steel	C.P. 136	13	Feb. 25, 1915	Mar. 15, 1915
1	2 aluminum	8 c-c. steel	1/4" galv. steel	Thom 2041	.....	July 21, 1911	April 6, 1912
1	3/0 aluminium	8 c-c. steel	1/4" galv. steel	Thom 2041	.....	June 22, 1912	Sept. 20, 1912
1	2 a.c.s-r.	9 galv. iron†	1/4" galv. steel	O.B. 12547	8	July 24, 1915	Oct. 22, 1915

## TORONTO DISTRICT—SYMBOL N3

1	115,000 c.m.cop	None	None	European 690 E.T.	.....	Mar. 7, 1924	Mar. 16, 1924
2	190,000 c.m.cop	None	None	C.P. 793	113	Re-str'g 1924	1910
1	133,000 c.m.cop	None	None	O.B. 9410	.....		1911
1	133,000 c.m.cop	None	None	O.B. 9410	.....		1911
1	2 h-d. copper	None	None	O.B. 11029	.....		1911
				Imperial Porcelain			
				12,000 volts			
1	2 a.c.s-r.	None	None	Thom 2111	.....	Aug. 3, 1923	Sept. 24, 1923
1	133,000 c.m.cop	None	None	O.B. 9410	.....		1911

\*All Browne & Sharpe gauge, except where otherwise noted.

†Birmingham wire gauge.

DESCRIPTION

NIAGARA SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
Lines terminating								
N.	L.T.							
464 x 5	98	Pole No. 944.....	Strathroy mun. sta...	40	120	9.27	425	13,200
467 x 6	77	Pole No. 388.....	Thorndale.....	35	132	4.27	179	13,200
Lines terminating								
462 x 32	119	Pole No. 760.....	Delaware dist. sta....	55	120	0.09	5	13,200
469 x 39	76	Pole No. 38.....	Dorchester dist. sta...	35	132	5.28	219	13,200
472 x 42	210	Pole No. 757.....	Ailsa Craig dist. sta...	30	132	9.92	402	13,200
440 x 43	136	Lucan dist. sta.....	Exeter dist. sta.....	35	132	13.24	558	13,200
472 x 40	99	Pole No. 757.....	Lucan dist. sta.....	35& 40	132	3.00	123	13,200
481 x 51	.....	Pole No. 245.....	Broughdale dist. sta...	35	150	1.58	59	13,200
Lines terminating								
463 x 62	96	Pole No. 462.....	Pole No. 760.....	40	120	6.59	298	13,200
4 x 463	95	London trans. sta.....	Pole No. 462.....	40	120	10.13	457	13,200
462 x 64	97	Pole No. 760.....	Pole No. 944.....	40	120	3.99	184	13,200
439 x 67	77	Dorchester dist. sta....	Pole No. 388.....	35	132	3.04	132	13,200
4 x 469a	18	London trans. sta.....	Pole No. 38.....	40	120	0.81	38	13,200
469 x 70b	19	Pole No. 38.....	Pole No. 99.....	45	120	1.38	61	13,200
470 x 81	99	Pole No. 99.....	Pole No. 245.....	35& 40	132	3.57	146	13,200
481 x 72	99	Pole No. 245.....	Pole No. 757.....	35& 40	132	12.61	513	13,200

*a* N4 x 469 L.T. 18—Arms, pins, poles and hardware owned by H.E.P.C., 1 circuit of 3/0 B. & S. G. alum., with insulators owned by London local Hydro.

*b* N469 x 70 L.T. 19—1-circuit of 2 B. & S. G. alum., together with insulators, cross arms, poles, N469 x 1 L.T. 20—Jct. pole No. 38 L.T. 18 to Jct. pole No. 93 L.T. 20, 1 circuit of 3/0 B. & S. G. alum., together with insulators, cross arms, poles, N4 x 401 L.T. 21—2-circuits of 3/0 B. & S. G. alum., together with insulators, cross arms, poles, N469 x 1 L.T. 22—1-circuit of 3/0 B. & S. G. alum., together with insulators, cross arms, poles, N470 x 17—1-circuit of 2 B. & S. G. alum., together with insulators, cross arms, poles, etc., Other connected low-tension lines in this district are owned by the municipality.

NIAGARA SYSTEM—

Lines terminating

N.	L.T.	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
Lines terminating								
5 x 501	32	Guelph struct.....	Station Property Bdry.	40	120	0.08	5	13,200
562 x 2	31	Pole No. 70.....	Ont. Agric. College...	40	120	0.10	8	13,200
565 x 5	57A	Pole No. 155.....	Prison Farm.....	40	120	0.08	3	13,200
Lines terminating								
564 x 33	86	Pole No. 776.....	Elora dist. sta.....	40	120	1.18	57	13,200
564 x 34	87	Pole No. 776.....	Fergus dist. sta.....	35	120	1.95	92	13,200
566 x 36	66	Pole No. 453.....	Rockwood dist. sta...	35	120	1.64	77	13,200
567 x 37	59	Pole No. 717.....	Acton dist. sta.....	40	120	0.07	5	13,200
568 x 38	94	Pole No. 1005.....	Cheltenham dist. sta...	35	132	5.05	218	13,200
568 x 39	65	Pole No. 1005.....	Georgetown dist. sta..	40	120	2.68	121	13,200



## OF LINES

## LONDON DISTRICT—SYMBOL N4

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 136	147	Sept. 14, 1914	Nov. 30, 1914
1	2 aluminum	None	1/4" galv. steel	Thom 2041	.....	Oct. 10, 1913	Feb. 6, 1914

## at customers

## at distributing stations

1	2 copper	10 c-c. steel	1/4" galv. steel	O.B. 9413	5	Jan. 27, 1915	Feb. 1, 1915
1	2 aluminum	10 galv. iron†	1/4" galv. steel	Thom 2041	91	Sept. 18, 1913	Jan. 27, 1914
1	2 a.c.s-r.	6 a.c.s-r.	9/32" galv. steel	C.P. 793	32	Nov. 12, 1919	May 2, 1920
1	3/0 aluminum	9 galv. iron†	1/4" galv. steel	O.B. 12546	76	Nov. 26, 1915	May 4, 1916
2	2 a.c.s-r.	10 galv. iron†	1/4" galv. steel	C.P. 136	11	Oct. 23, 1914	Jan. 21, 1915
1	2 a.c.s-r.	9 galv. iron†	None	C.P. 889	56	July 14, 1924	Aug. 1, 1924

## at junctions

1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 136	39	Oct. 15, 1914	Nov. 30, 1914
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 136	334	Sept. 1, 1914	Nov. 30, 1914
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 136	33	Sept. 29, 1914	Nov. 30, 1914
1	2 aluminum	None	1/4" galv. steel	Thom 2041	.....	Oct. 10, 1913	Feb. 6, 1914
3	2 a.c.s-r.	10 c-c. steel	1/4" galv. steel	Thom 2041	34	Oct. 26, 1910	Jan. 10, 1911
2	2 a.c.s-r.	10 c-c. steel	1/4" galv. steel	Thom 2041	61	Oct. 26, 1910	Jan. 19, 1911
2	2 a.c.s-r.	10 galv. iron†	1/4" galv. steel	C.P. 136	88	Oct. 23, 1914	Jan. 21, 1915
2	2 a.c.s-r.	10 galv. iron†	1/4" galv. steel	C.P. 136	14	Oct. 23, 1914	Jan. 21, 1915

S. G. alum., with insulators from pole No. 5 to Jct. pole No. 38, owned by London local Hydro.

alum., together with insulators, cross arms and poles owned by London local Hydro.

etc., owned by London local Hydro.

etc., owned by London local Hydro.

owned by London local Hydro.

## GUELPH DISTRICT—SYMBOL N5

## at customers

3	3/0 aluminum	10 c-c. steel	1/4" galv. steel	.....	.....	Aug. 7, 1911	Sept. 4, 1911
1	1/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 793	8	July 21, 1911	Nov. 9, 1911
1	2 a.c.s-r.	8 c-c. steel	1/4" galv. steel	Thom 2041	.....	May 14, 1913	Sept. 4, 1913

## at distributing stations

1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 136	.....	Aug. 18, 1914	Oct. 22, 1914
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 136	12	Aug. 1, 1914	Oct. 22, 1914
1	2 a.c.s-r.	10 c-c. steel	1/4" galv. steel	Thom 2041	.....	May 6, 1913	Aug. 1, 1913
1	3/0 a.c.s-r.	8 c-c. steel	1/4" galv. steel	Thom 2041	6	Aug. 19, 1912	Dec. 14, 1912
1	1/0 aluminum	10 c-c. steel	1/4" galv. steel	.....	.....	June 10, 1914	July 3, 1914
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	17	Mar. 11, 1913	Aug. 1, 1913

\* All Browne & Sharpe gauge, except where otherwise noted.

† Birmingham wire gauge.

**DESCRIPTION**  
**NIAGARA SYSTEM—**

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt- age
<b>Lines terminating</b>								
5 x 562	31	Guelph trans. sta.....	Pole No. 70.....	40	120	1.46	70	13,200
562 x 63	57	Pole No. 70.....	Pole No. 118.....	40	120	1.07	48	13,200
563 x 64	85	Pole No. 118.....	Pole No. 776.....	40	120	14.64	658	13,200
563 x 65	57	Pole No. 118.....	Pole No. 155.....	40	120	0.86	37	13,200
565 x 66	58	Pole No. 155.....	Pole No. 453.....	40	120	6.41	298	13,200
566 x 67	59	Pole No. 453.....	Pole No. 717.....	40	120	5.78	264	13,200
567 x 68	65	Pole No. 717.....	Pole No. 1005.....	40	120	6.37	288	13,200

NOTE.—Other connected low-tension lines in this district are owned by the municipality.

**NIAGARA SYSTEM—**

<b>Lines terminating</b>								
N.	L.T.							
6 x 601	17 & 35	Preston trans. sta.....	Preston corporation sta	35	120	0.14	11	13,200
601 x 2	35	Preston corp. sta.....	G.P. & H. Rly.....	40	120	0.12	6	13,200
664 x 3a	16	Pole No. 99.....	Galt mun. sta.....	40	120	3.75	175	13,200
664 x 4	15	Pole No. 99.....	Hespeler mun. sta....	40	120	2.09	99	13,200

**Lines terminating**

6 x 664	14	Preston trans. sta.....	Pole No. 99.....	45	120	2.04	99	13,200
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a N664 x 3, L.T. 16, 63 poles from No. 212 to No. 274 inclusive were supplied and erected by Galt

**NIAGARA SYSTEM—**

<b>Lines terminating</b>								
N.	L.T.							
762 x 1 a	6	Pole No. 10.....	Kitchener mun. sta....	45	120	0.76	34	13,200
762 x 2 c	5	Pole No. 9.....	Waterloo mun. sta....	40	120	1.64	79	13,200

**Lines terminating**

702 x 33	71	Waterloo mun. sta.....	St. Jacobs dist. sta....	40	120	6.28	299	13,200
733 x 34	71	St. Jacobs dist. sta....	Elmira dist. sta.....	40	120	4.62	218	13,200
765 x 35	7A	Pole No. 405.....	Baden dist. sta.....	40	120	0.11	7	13,200
766 x 37	7	Pole No. 463.....	New Hamburg dist. sta	40	120	1.89	92	13,200

a N762 x 1, L.T. 6, 35 poles, from No. 10 to No. 44 inclusive, were supplied and erected

c N762 x 2, L.T. 5, 9 poles, from No. 80 to No. 88 inclusive, were supplied and erected

## OF LINES

## GUELPH DISTRICT—SYMBOL N5—Continued

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
<b>at junctions</b>							
2	1-1/0 aluminum 1-3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 793	65	July 21, 1911	Nov. 9, 1911
2	1-3/0 aluminum						
2	1-3/0 a.c.s-r.	8 c-c. steel	1/4" galv. steel	Thom 2041	.....	Aug. 19, 1912	Dec. 14, 1912
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 136	.....	June 3, 1914	Oct. 22, 1914
1	3/0 a.c.s-r.	8 c-c. steel	1/4" galv. steel	Thom 2041	.....	Aug. 19, 1912	Dec. 14, 1912
1	3/0 a.c.s-r.	8 c-c. steel	1/4" galv. steel	Thom 2041	.....	Aug. 19, 1912	Dec. 14, 1912
1	3/0 a.c.s-r.	8 c-c. steel	1/4" galv. steel	Thom 2041	28	Aug. 19, 1912	Dec. 14, 1912
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	54	Mar. 11, 1913	Aug. 1, 1913

## PRESTON DISTRICT—SYMBOL N6

## at customers

2	1/0 aluminum 2 copper	10 c-c. steel	1/4" galv. steel	Thom 2041	.....	Built by Pres	ton Corp.
2	1/0 aluminum						
2	1/0 a.c.s-r.	10 c-c. steel	1/4" galv. steel	Thom 2041	.....	Mar. 13, 1911	Mar. 21, 1911
2	4/0 aluminum	10 c-c. steel	1/4" galv. steel	{O.B. 12546 Thom 2041	19	Oct. 8, 1910	Jan. 19, 1911
1	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	45	Oct. 8, 1910	Dec. 30, 1910

## at junctions

3	1-2 aluminum 2-4/0 aluminum	10 c-c. steel	1/4" galv. steel	{O.B. 12546 Thom 2041 C.P. 793	43	Oct. 8, 1910	Jan. 19, 1911
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local Hydro.

## KITCHENER DISTRICT—SYMBOL N7

## at customers

2	1/0 aluminum	10 c-c. steel	1/4" galv. steel	{O.B. 12546 Thom 2041	34	Aug. 25, 1910	Sept. 11, 1910
2	1/0 aluminum	10 c-c. steel	1/4" galv. steel	{O.B. 12546 Thom 2041	78	Sept. 11, 1910	Nov. 25, 1910

## at distributing stations

1	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	50	May 17, 1913	Oct. 25, 1913
1	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	11	May 17, 1913	Oct. 25, 1913
2	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	7	.....	May, 1912
2	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	9	Sept. 11, 1910	Feb. 3, 1911

by Kitchener local Hydro.  
by Waterloo local Hydro.

\* All Browne &amp; Sharpe gauge, except where otherwise noted.



**DESCRIPTION**  
**NIAGARA SYSTEM—**

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
<b>Lines terminating</b>								
7 x 762b	4	Kitchener trans. sta....	Pole No. 9.....	40	120	0.18	10	13,200
7 x 765	7	Kitchener trans. sta....	Pole No. 405.....	40	120	9.09	405	13,200
765 x 66	7	Pole No. 405.....	Pole No. 463.....	40	120	1.29	58	13,200

b N7 x 762, L.T. 4, 5 poles, from No. 5 to No. 9 inclusive, were supplied and erected  
NOTE.—Other connected low-tension lines in this district are owned by the municipality.

**NIAGARA SYSTEM—**

**Lines terminating**

N.	L.T.							
863 x 3	30	Pole No. 647.....	Mitchell mun. sta....	40	120	1.27	59	26,400
865 x 5	29	Pole No. 1153.....	Seaforth mun. sta....	40	120	1.50	74	26,400
866 x 6	28	Pole No. 1550.....	Clinton mun. sta....	40	120	1.27	62	26,400
866 x 7	150	Pole No. 1550.....	Goderich mun. sta....	40	120	13.61	610	26,400

**Lines terminating**

8 x 832	125	Stratford trans. sta....	Tavistock dist. sta....	35	132	9.72	398	26,400
863 x 34	148	Pole No. 647.....	Dublin dist. sta....	40	120	5.08	224	26,400
868 x 38	139	Pole No. 802.....	Milverton dist. sta....	35	132	0.96	38	26,400
869 x 39	141	Pole No. 1314.....	Listowel dist. sta....	35	132	2.77	120	26,400
871 x 40	142	Pole No. 1726.....	Palmerston dist. sta....	35	132	0.42	18	26,400
871 x 41	143	Pole No. 1726.....	Harriston dist. sta....	35	132	6.12	260	26,400
865 x 46	.....	Pole No. 1154.....	Walton dist. sta....	35	175	9.45	339	26,400

**Lines terminating**

867 x 63	147	Pole No. 311.....	Pole No. 647.....	40	120	7.61	336	26,400
834 x 65	148	Dublin dist. sta....	Pole No. 1153.....	40	120	6.28	282	26,400
865 x 66	149	Pole No. 1153.....	Pole No. 1550.....	40	120	8.84	397	26,400
8 x 867	146	Stratford trans. sta....	Pole No. 311.....	40	120	6.81	311	26,400
867 x 68	138	Pole No. 311.....	Pole No. 802.....	35	132	11.92	491	26,400
868 x 69	140	Pole No. 802.....	Pole No. 1314.....	35	132	12.83	512	26,400
869 x 70	142	Pole No. 1314.....	Pole No. 1657.....	35	132	8.40	343	26,400
872 x 71	142	Pole No. 1687.....	Pole No. 1726.....	35	132	0.84	39	26,400
870 x 72	142	Pole No. 1657.....	Pole No. 1687.....	35	132	0.78	30	26,400

NOTE.—From Pole No. 1688 to Palmerston dist. sta., No. 9 B.W.G. galv.-iron tel. wire replaced  
Other connected low-tension lines in this district are owned by the municipality.  
For inter-connected lines, see Eugenia system, Symbol "E."

## OF LINES

## KITCHENER DISTRICT—SYMBOL N7—Continued

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at junctions							
4	1/0 aluminum	10 c-c. steel	1/4" galv. steel	{ O.B. 12546 Thom 2041	5	Aug. 25, 1910	Sept. 11, 1910
2	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	43	Sept. 11, 1910	Feb. 3, 1911
2	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	9	Sept. 11, 1910	Feb. 3, 1911

by Kitchener local Hydro.

## STRATFORD DISTRICT—SYMBOL N8

## at customers

2	2 aluminum	10 c.c. steel	1/4" galv. steel	Thom 2041	.....	Mar. 24, 1911	Aug. 3, 1911
2	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	.....	Mar. 25, 1911	Sept. 13, 1911
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 889	.....	April 6, 1911	Aug. 4, 1911
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 889	.....	April 23, 1913	Dec. 23, 1914

## at distributing stations

1	6 galv. iron	† 9 galv. iron	† 6 galv. iron	† C.P. 133	.....	Sept. 9, 1915	Oct. 26, 1916
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 133	.....	April 23, 1913	Dec. 23, 1914
1	2 a.c.s-r.	9 galv. iron	† 1/4" galv. steel	O.B. 11622	.....	Oct. 15, 1915	May 18, 1916
1	2 a.c.s-r.	9 galv. iron	† 1/4" galv. steel	O.B. 11622	.....	Oct. 28, 1915	May 27, 1916
1	1/0 a.c.s-r.	9 galv. iron	† 1/4" galv. steel	O.B. 11622	18	Oct. 14, 1915	June 6, 1916
1	1/0 a.c.s-r.	6 a.c.s-r.	1/4" galv. steel	O.B. 11622	18	Dec. 10, 1915	June 30, 1916
1	5/16" galv. steel	9 galv. iron	† None	C.P. 889	22	Mar. 3, 1924	July 11, 1924

## at junctions

2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 133	.....	April 23, 1913	Dec. 23, 1914
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 133	.....	April 23, 1913	Dec. 23, 1914
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 889	.....	April 23, 1913	Dec. 23, 1914
3	3/0 aluminum	{ 6 a.c.s-r. 10 c-c. steel	1/4" galv. steel	C.P. 133	.....	April 23, 1913	Dec. 23, 1914
1	1/0 a.c.s-r.	6 a.c.s-r.	1/4" galv. steel	O.B. 11622	.....	Sept. 20, 1915	May 18, 1916
1	1/0 a.c.s-r.	6 a.c.s-r.	1/4" galv. steel	O.B. 11622	.....	Oct. 13, 1915	May 27, 1916
1	1/0 a.c.s-r.	6 a.c.s-r.	1/4" galv. steel	O.B. 11622	.....	Oct. 14, 1915	June 6, 1916
1	1/0 a.c.s-r.	6 a.c.s-r.	1/4" galv. steel	O.B. 11622	22	Oct. 14, 1915	June 6, 1916
1	1/0 a.c.s-r.	6 a.c.s-r.	1/4" galv. steel	O.B. 11622	.....	Oct. 14, 1915	June 6, 1916

with No. 8 B. & S.G. copper.

\* All Browne & Sharpe gauge, except where otherwise noted.

† Birmingham wire gauge.

**DESCRIPTION**  
**NIAGARA SYSTEM—**

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt- age
<b>Lines terminating</b>								
N. 961 x 32	L.T. 46	Pole No. 33.....	St. Mary's Portland Cement Co. dist. sta.	40	120	1.55	49	13,200

<b>Lines terminating</b>								
9 x 961a	46	St. Mary's trans. sta...	Pole No. 33.....	40	120	0.67	33	13,200

a N9 x 961, L.T. 46, 29 poles, from pole No. 4 to pole No. 32 inclusive are owned by St. Marys

**NIAGARA SYSTEM—**

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt- age
<b>Lines terminating</b>								
N. 1062 x 2	L.T. 109	Pole No. 76.....	W.T.V. & I. Rly.....	.....	.....	0.02	2	13,200
1073 x 5	8	Pole No. 324.....	Ingersoll mun. sta....	40	120	2.80	131	13,200
1066 x 9	10	Pole No. 508.....	Tillsonburg mun. sta..	40	120	10.30	467	13,200

<b>Lines terminating</b>								
1064 x 33	106	Pole No. 289.....	Embro dist. sta.....	35	132	6.04	256	13,200
1064 x 34	45	Pole No. 289.....	Beachville dist. sta....	30	50	0.01	1	13,200
1066 x 36	11	Pole No. 508.....	Norwich dist. sta....	40	120	4.59	208	13,200

<b>Lines terminating</b>								
10 x 1062	8	Woodstock trans. sta...	Pole No. 76.....	40	120	1.57	76	13,200
1062 x 64	8	Pole No. 76.....	Pole No. 289.....	40	120	4.70	213	13,200
10 x 1066	9	Woodstock trans. sta...	Pole No. 508.....	40	120	11.08	503	13,200
1064 x 73	8	Pole No. 289.....	Pole No. 324.....	40	120	0.83	35	13,200



## OF LINES

## ST. MARYS DISTRICT—SYMBOL N9

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
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## at distributing stations

1	3/0 aluminum	8 c-c. steel	1/4" galv. steel	Thom 2041	.....	June 15, 1912	Sept. 7, 1912
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## at junctions

1	3/0 aluminum	8 c-c. steel	1/4" galv. steel	Thom 2041	.....	June 15, 1912	Sept. 7, 1912
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local Hydro.

## WOODSTOCK DISTRICT—SYMBOL N10

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
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## at customers

1	2 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 136	.....	Sept. 12, 1914	Sept. 13, 1914
2	1/0 aluminum	10 c-c. steel	1/4" galv. steel	{ Thom 2041	66	Nov. 14, 1910	Mar. 28, 1911
				{ C.P. 793			
2	1/0 aluminum	10 c-c. steel	1/4" galv. steel	{ Thom 2041	29	Jan. 2, 1911	April 29, 1911
				{ C.P. 793			

## at distributing stations

1	1/4" galv. steel	10 c-c. steel	1/4" galv. steel	C.P. 136	.....	Oct. 1, 1914	Dec. 22, 1914
1	1/0 aluminum	.....	1/4" galv. steel	Thom 2041	.....	June 1, 1912	July 17, 1912
1	2 aluminum	10 c-c. steel	1/4" galv. steel	{ Thom 2041	33	Feb. 13, 1911	Mar. 30, 1911
				{ C.P. 793			

## at junctions

2	1/0 aluminum	10 c-c. steel	1/4" galv. steel	{ C.P. 793	3	Nov. 14, 1910	Mar. 28, 1911
				{ Thom 2041			
2	1/0 aluminum	10 c-c. steel	1/4" galv. steel	{ C.P. 793	16	Nov. 14, 1910	Mar. 28, 1911
				{ Thom 2041			
2	1/0 aluminum	10 c-c. steel	1/4" galv. steel	{ C.P. 793			
2	1/0 aluminum	10 c-c. steel	1/4" galv. steel	{ Thom. 2041	239	Jan. 2, 1911	April 29, 1911
				{ Thom 2041	35	Nov. 14, 1910	Mar. 28, 1911
				{ C.P. 793			

\* All Browne &amp; Sharpe gauge, except where otherwise noted.

**DESCRIPTION  
NIAGARA SYSTEM—**

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt- age
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**Lines terminating**

N. 11x1101a	L.T. 12	St. Thomas trans. sta.	St. Thomas mun. sta.	40	120	1.13	47	13,200
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**Lines terminating**

1134 x 35	153	Dutton dist. sta.	West Lorne dist. sta.	30	132	7.60	312	13,200
1168 x 37	41	Pole No. 112.	Port Stanley dist. sta.	35	120	10.03	462	13,200
1168 x 38	174	Pole No. 112.	Aylmer dist. sta.	35	132	9.60	405	13,200
1162 x 34	121	Pole No. 5.	Dutton dist. sta.	30	132	18.33	756	13,200

**Lines terminating**

11 x 1162	121	St. Thomas trans. sta.	Pole No. 5.	30	132	0.04	4	13,200
11 x 1168	41	St. Thomas trans. sta.	Pole No. 112.	35	120	2.24	112	13,200

a N11 x 1101, L.T. 12, from pole No. 5 to No. 47 inclusive (St. Thomas mun. sta.) sold to St.

**NIAGARA SYSTEM—**

**Lines terminating**

N. 1262 x 1	L.T. 69	Pole No. 246.	Brantford mun. sta.	40	120	1.47	72	26,400
1262 x 2	69A	Pole No. 246.	L.E. & N. Rly.	45	125	0.24	13	26,400
1267 x 6	114	Pole No. 1230.	Simcoe mun. sta.	35	132	0.06	5	26,400
1267 x 7	114A	Pole No. 1230.	L.E. & N. Rly., Simcoe	45	120	0.25	11	26,400
1268 x 8	68	Pole No. 40.	Paris mun. sta.	40	120	2.44	110	26,400

**Lines terminating**

1264 x 34	112	Pole No. 253.	Burford dist. sta.	35	132	3.48	142	26,400
1265 x 35	113A	Pole No. 869.	Waterford dist. sta.	40	132	0.09	4	26,400
1270 x 40	89	Pole No. 448.	Ayr dist. sta.	35	120	1.20	56	26,400
1272 x 41	90	Pole No. 713.	Drumbo dist. sta.	35	132	0.50	21	26,400

**Lines terminating**

N. 12 x 1261	L.T. 69	Brant trans. sta.	Pole No. 19.	40	120	0.33	17a 19	26,400
1261 x 76	69	Pole No. 19.	Pole No. 108.	40	120	1.92	89	26,400
1286 x 64	111	Pole No. 40.	Pole No. 253.	35	132	5.86	228	26,400
1264 x 65	113	Pole No. 253.	Pole No. 869.	35	132	15.05	616	26,400
1275 x 67	114	Pole No. 1145.	Pole No. 1230.	35	132	2.02	85	26,400
1265 x 75	114	Pole No. 869.	Pole No. 1145.	35	132	6.79	276	26,400
1261 x 68	68	Pole No. 19.	Pole No. 40.	40	120	0.44	21	26,400
1208 x 69	88	Paris mun. sta.	Pole No. 195.	35	132	1.09	49	26,400
1269 x 70	88	Pole No. 196.	Pole No. 448.	35	132	6.14	252	26,400
1270 x 71	90	Pole No. 448.	Pole No. 636.	35	132	4.53	188	26,400
1271 x 72	90	Pole No. 636.	Pole No. 713.	35	132	1.80	77	26,400
1276 x 62	69	Pole No. 108.	Pole No. 246.	40	120	2.94	138	26,400

a Independent poles.

## OF LINES

## ST. THOMAS DISTRICT—SYMBOL N11

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
<b>at customers</b>							
2	1/0 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	.....	Dec. 14, 1910	Dec. 30, 1910

**at distributing stations**

1	1/0 a.c.s-r.	None	None	C.P. 136	.....	Dec. 4, 1916	Dec. 22, 1916
1	2 aluminum	8 c-c. steel	1/4" galv. steel	Thom 2041	.....	Oct. 16, 1911	Mar. 9, 1912
1	1/0 a.c.s-r.	9 galv. iron	1/4" galv. steel	C.P. 889	405	Aug. 27, 1917	Feb. 11, 1918
1	1/0 aluminum	None	None	C.P. 136	22	May 3, 1915	Aug. 27, 1915

**at junctions**

1	1/0 aluminum	None	None	C.P. 136	.....	May 3, 1915	Aug. 27, 1915
1	2 aluminum	8 c-c. steel	1/4" galv. steel	Thom 2041	112	Oct. 16, 1911	Mar. 9, 1912

Thomas Hydro Sept., 1924.

## BRANT DISTRICT—SYMBOL N12

**at customers**

2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	15	Dec. 15, 1913	Jan. 17, 1914
2	2 a.c.s-r.	10 c-c. steel	1/4" galv. steel	O.B. 11622	.....	Sept. 9, 1921	Sept. 21, 1921
1	2 a.c.s-r.	10 h-d. cop.	1/4" galv. steel	C.P. 102	4	Nov. 26, 1914	May 9, 1915
1	2 a.c.s-r.	10 galv. iron†	1/4" galv. steel	C.P. 133	.....	.....	July 14, 1916
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	28	Nov. 11, 1913	Jan. 3, 1914

**at distributing stations**

1	2 a.c.s-r.	10 h-d. cop.	1/4" galv. steel	C.P. 102	.....	Nov. 21, 1914	May 6, 1915
1	2 a.c.s-r.	10 h-d. cop.	1/4" galv. steel	C.P. 102	4	Nov. 21, 1914	May 10, 1915
1	1/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	34	Sept. 15, 1914	Dec. 1, 1914
1	1/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	4	July 13, 1914	Dec. 1, 1914

**at junctions**

5	2 a.c.s-r. 1-cir.	10 c-c. steel	1/4" galv. steel	C.P. 102	15	Dec. 15, 1913	Jan. 17, 1914
	3/0 aluminum						
	4-cir.						
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	89	Dec. 15, 1913	Jan. 17, 1914
1	2 a.c.s-r.	10 copper	1/4" galv. steel	C.P. 102	.....	Nov. 6, 1914	May 6, 1915
1	2 a.c.s-r.	10 h-d. cop.	1/4" galv. steel	C.P. 102	10	Nov. 21, 1914	May 10, 1915
1	2 a.c.s-r.	10 h-d. cop.	1/4" galv. steel	C.P. 102	27	Nov. 26, 1914	May 9, 1915
1	2 a.c.s-r.	10 h-d. cop.	1/4" galv. steel	C.P. 102	63	Nov. 26, 1914	May 9, 1915
3	1-cir 2 a.c.s-r.	10 c-c. steel	1/4" galv. steel	C.P. 102	.....	Nov. 11, 1913	Jan. 3, 1914
1	1/0 aluminum						
1	1/0 aluminum						
1	1/0 aluminum						
1	1/0 aluminum						
1	1/0 aluminum						
2	3/0 aluminum						

\* All Browne &amp; Sharpe gauge, except where otherwise noted.

† Birmingham wire gauge.



DESCRIPTION  
NIAGARA SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt-age
Lines terminating								
N. 1331 x 2	L.T. 26&26A	Port Credit dist. sta...	Port Credit Brick Wks.	45	120	0.88	43	13,200
1363 x 3	163	Pole No. 30.....	Shale Brick Co.....	55	120	1.22	59	13,200
1368 x 4	27	Pole No. 230.....	Brampton mun. sta...	40	120	6.17	276	13,200
1369 x 8	62	Pole No. 381.....	Milton mun. sta.....	40	120	13.36	592	13,200
1362 x 14	36	Pole No. 84.....	H.E. Rly., Mimico....	45	120	1.64	73	13,200

Lines terminating								
1362 x 31	26	Pole No. 84.....	Port Credit dist. sta...	40	120	0.32	16	13,200
1369 x 39	79	Pole No. 381.....	Streetsville dist. sta...	45	120	0.41	19	13,200

Lines terminating								
13 x 1361	26	Cooksville trans. sta...	Pole No. 6.....	40	120	0.08	6	13,200
1361 x 62	26	Pole No. 6.....	Pole No. 84.....	40	120	1.79	78	13,200
13 x 1363	27	Cooksville trans. sta...	Pole No. 30.....	40	120	0.57	30	13,200
1363 x 64	27	Pole No. 30.....	Pole No. 89.....	40	120	1.32	59	13,200
1364 x 68	27	Pole No. 89.....	Pole No. 230.....	40	120	3.18	141	13,200
1368 x 69	62	Pole No. 230.....	Pole No. 381.....	40	120	3.36	151	13,200
1314x1661	36	H.E. Rly., Mimico....	Pole No. 332.....	45	120	3.84	177	13,200
1364x1664	34	Pole No. 89.....	Pole No. 419.....	Pole rights only.				

NIAGARA SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt-age
Lines terminating								
N. 1462 x 1	L.T. 84	Pole No. 41.....	Chatham mun. sta....	40	120	1.11	59	26,400
1477 x 17	135	Pole No. 2304.....	Sarnia mun. sta.....	35	125	7.73	333	26,400
1483 x 23	.....	Pole No. 849.....	Dom. Sugar Co., Wallaceburg.....	40	125	0.81	35	26,400

## OF LINES

## COOKSVILLE DISTRICT—SYMBOL N13

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at customers							
2	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	31	April 5, 1911	July 23, 1911
1	2 a.c.s-r.	10 c-c. steel	1/4" galv. steel	Thom 2041	41	Mar. 6, 1917	April 22, 1917
2	2/0 a.c.s-r.	10 c-c. steel	1/4" galv. steel	Thom 2041	108	Feb. 15, 1911	May 6, 1911
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel.	Thom 2041	1	Nov. 25, 1912	Mar. 13, 1913
2	1-2 a.c.s-r.	8 c-c. steel	1/4" galv. steel	O.B. 12546	72	April 26, 1911	Feb. 29, 1912
2	1-2 aluminum			Thom 2041			

## at distributing stations

2	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	15	Feb. 24, 1911	July 10, 1911
1	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	19	Nov. 1, 1913	Nov. 24, 1913

## at junctions

3	1-cir. 4 copper	10 c-c. steel	1/4" galv. steel	O.B. 12546	.....	Feb. 24, 1911	July 10, 1911
	2-cir. 2 alum.			Thom 2041			
2	2 aluminum	10 c-c. steel	1/4" galv. steel	O.B. 12546	78	Feb. 24, 1911	July 10, 1911
	2-cir. a.c.s-r.	10 c-c. steel	1/4" galv. steel	Thom 2041			
3	1-cir. a.c.s-r.			O.B. 12546	30	Feb. 15, 1911	May 6, 1911
		10 c-c. steel	1/4" galv. steel	Thom 2041			
2	3/0 a.c.s-r.			O.B. 12546	9	Feb. 15, 1911	May 6, 1911
2	3/0 a.c.s-r.	10 c-c. steel	1/4" galv. steel	Thom 2041			
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2041	.....	Nov. 25, 1912	Mar. 13, 1913
	1-2 a.c.s-r.	8 c-c. steel	1/4" galv. steel	O.B. 12546			
2	1-2 aluminum			Thom 2041	153	April 26, 1911	Feb. 29, 1912

## KENT DISTRICT—SYMBOL N14

No. of circuits	Size of material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
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## at customers

2	2/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	.....	Oct. 21, 1914	Feb. 1, 1915
2	3/0 aluminum	9 galv. iron †	1/4" galv. steel	O.B. 11622		May 9, 1916	Nov. 10, 1916
2	3/0 aluminum	10 c-c. steel	5/16" galv. steel	C.P. 133	7	Oct. 24, 1921	Mar. 1, 1922

\* All Browne &amp; Sharpe gauge, except where otherwise noted.

† Birmingham wire gauge.

**DESCRIPTION**  
**NIAGARA SYSTEM—**

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt- age
<b>Lines terminating</b>								
1485 x 32	101	Pole No. 425.....	Tilbury dist. sta.....	35	132	7.41	84	26,400
1468 x 34	126	Pole No. 69.....	Blenheim dist. sta....	35	132	9.52	388	26,400
1466 x 35	127	Pole No. 783.....	Ridgetown dist. sta....	35	132	0.43	20	26,400
1467 x 37	123	Pole No. 676.....	Thamesville dist. sta..	35	132	0.09	6	26,400
1467 x 38	124	Pole No. 676.....	Bothwell dist. sta....	35	132	9.83	407	26,400
1483 x 39	104	Pole No. 849.....	Wallaceburg dist. sta..	40	120	1.18	56	26,400
1470 x 40	105	Pole No. 795.....	Dresden dist. sta.....	40	132	0.68	33	26,400
1471 x 41	172	Pole No. 1445A.....	Oil Springs dist. sta..	35	132	1.42	63	26,400
1471 x 42	173	Pole No. 1445A.....	Brigden dist. sta.....	35	132	8.88	360	26,400
1471 x 43	131	Pole No. 1445A.....	Petrolia dist. sta.....	35	125	6.77	297	26,400
1476 x 45	145	Pole No. 2336.....	Forest dist. sta.....	35	132	10.90	444	26,400
1476 x 46	157	Pole No. 2336.....	Watford dist. sta.....	35	132	10.84	443	26,400
1477 x 48	.....	Pole No. 2304.....	Perch dist. sta.....	35	125	3.56	151	26,400
1485 x 55	.....	Pole No. 425.....	Fletcher dist. sta.....	35	150	2.95	118	26,400

**Lines terminating**

14 x 1462	84	Kent trans. sta.....	Pole No. 41.....	40	120	0.82	41	26,400
1468 x 65	123	Pole No. 68.....	Pole No. 470.....	35	132	9.74	402	26,400
1465 x 66	127	Pole No. 470.....	Pole No. 783.....	35	132	7.52	313	26,400
1465 x 67	123	Pole No. 470.....	Pole No. 676.....	35	132	4.78	206	26,400
14 x 1468	102	Kent trans. sta.....	Pole No. 68.....	40	120	1.48	68	26,400
1468 x 69	103	Pole No. 68.....	Pole No. 520.....	40	120	9.98	452	26,400
1469 x 70	105	Pole No. 520.....	Pole No. 795.....	40	132	6.71	275	26,400
1470 x 71	131	Pole No. 795.....	Pole No. 1445A.....	35	125	15.05	651	26,400
1475 x 74	145	Pole No. 1962.....	Pole No. 2058.....	35	132	2.35	96	26,400
1443 x 75	132	Petrolia dist. sta.....	Pole No. 1962.....	40	125	4.89	219	26,400
1474 x 76	145	Pole No. 2058.....	Pole No. 2336.....	35	132	6.85	278	26,400
1475 x 77	133	Pole No. 1962.....	Pole No. 2304.....	35	125	7.92	342	26,400
1469 x 83	104	Pole No. 520.....	Pole No. 849.....	40	120	7.32	329	26,400
1462 x 85	101	Pole No. 41.....	Pole No. 425.....	35	132	9.57	.....	26,400

**NIAGARA SYSTEM—**

**Lines terminating**

N.	L.T.							
1562 x 1	82	Pole No. 55.....	Windsor mun. sta....	45	120	2.27	103	26,400
1562 x 2	83	Pole No. 55.....	Walkerville mun. sta..	40	120	1.30	62	26,400
15 x 1502	.....	Essex trans. sta.....	Walkerville mun. sta..	40	100	2.45	129	26,400
1578 x 18	.....	Pole No. 421.....	Essex Div. Rly.....	35	132	1.13	46	26,400



## OF LINES

## KENT DISTRICT—SYMBOL N14—Continued

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at distributing stations							
1	2 a.c.s-r.	10 c-c. steel	1/4" galv. steel	C.P. 133	.....	Jan. 13, 1915	Mar. 3, 1915
1	2 a.c.s-r.	9 galv. iron †	1/4" galv. steel	C.P. 133	23	July 2, 1915	Oct. 20, 1915
1	2 a.c.s-r.	9 galv. iron †	1/4" galv. steel	C.P. 133	20	June 24, 1915	Nov. 24, 1915
1	1/0 aluminum	9 galv. iron †	1/4" galv. steel	C.P. 133	.....	May 18, 1915	Sept. 14, 1915
1	2 a.c.s-r.	9 galv. iron †	1/4" galv. steel	C.P. 133	135	June 26, 1915	Aug. 17, 1915
2	1-1/0 aluminum	10 h-d. cop.	1/4" galv. steel	C.P. 133	53	Nov. 6, 1914	Feb. 3, 1915
	1-3/0 aluminum						
2	3/0 aluminum	10 h-d. cop.	1/4" galv. steel	C.P. 133	33	Nov. 3, 1914	Mar. 30, 1915
1	6 galv. iron †	9 galv. iron †	1/4" galv. steel	O.B. 11622	.....	July 20, 1917	Dec. 5, 1917
1	6 galv. iron †	9 galv. iron †	1/4" galv. steel	C.P. 889	.....	Aug. 1, 1917	Dec. 6, 1917
2	3/0 aluminum	9 galv. iron †	1/4" galv. steel	O.B. 11622	.....	Aug. 30, 1915	April 6, 1916
1	6 galv. iron †	9 galv. iron †	6 galv. iron †	C.P. 889	84	June 26, 1915	Feb. 7, 1917
1	6 galv. iron †	9 galv. iron †	1/4" galv. steel	C.P. 889	.....	June 9, 1917	Aug. 10, 1917
2	5/16" galv. steel	9 galv. iron †	5/16" galv. steel	C.P. 889	.....	Sept. 19, 1922	Nov. 19, 1922
1	5/16" galv. steel	9 galv. iron †	5/16" galv. steel	C.P. 889	40	Nov. 20, 1922	Dec. 22, 1922

## at junctions

3	1-cir. 2 a.c.s-r.	10 c-c. steel	1/4" galv. steel	C.P. 102	15	Oct. 21, 1914	Feb. 1, 1915
	2-cirs. 2/0 alum.						
1	1/0 aluminum	9 galv. iron †	1/4" galv. steel	C.P. 133	1	May 18, 1915	Sept. 14, 1915
1	2 a.c.s-r.	9 galv. iron †	1/4" galv. steel	C.P. 133	.....	June 24, 1915	Nov. 24, 1915
1	1/0 aluminum	9 galv. iron †	1/4" galv. steel	C.P. 133	.....	May 18, 1915	Sept. 14, 1915
3	2-3/0 aluminum	10 h-d. cop.	1/4" galv. steel	O.B. 11622	67	Oct. 28, 1914	Feb. 3, 1915
	1-1/0 aluminum			C.P. 133			
2	3/0 aluminum	10 h-d. cop.	1/4" galv. steel	C.P. 133	.....	Oct. 30, 1914	Feb. 3, 1915
2	3/0 aluminum	10 h-d. cop.	1/4" galv. steel	C.P. 133	.....	Nov. 3, 1914	Mar. 30, 1915
2	3/0 aluminum	9 galv. iron †	1/4" galv. steel	O.B. 11622	83	Aug. 30, 1915	April 6, 1916
1	6 galv. iron †	9 galv. iron †	6 galv. iron †	C.P. 889	.....	June 26, 1915	Feb. 7, 1917
2	3/0 aluminum	9 galv. iron †	1/4" galv. steel	O.B. 11622	81	Mar. 1, 1916	Nov. 10, 1916
1	6 galv. iron †	9 galv. iron †	6 galv. iron †	C.P. 889	.....	June 26, 1915	Feb. 7, 1917
2	3/0 aluminum	9 galv. iron †	1/4" galv. steel	O.B. 11622	.....	April 6, 1916	Nov. 10, 1916
	1-cir. 1/0 alum.						
1	1-cir. 3/0 alum.	10 h-d. cop. †	1/4" galv. steel	C.P. 133	.....	Nov. 6, 1914	Feb. 3, 1915
	2 a.c.s-r.	10 c-c. steel	1/4" galv. steel	C.P. 133	.....	Jan. 13, 1915	Mar. 3, 1915

## ESSEX DISTRICT—SYMBOL N15

## at customers

2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	.....	July 31, 1919	Sept. 18, 1914
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	.....	June 2, 1914	Sept. 6, 1914
2	500,000 c.m. aluminum	10 c-c. steel	None	O.B. 12464	1	Nov. 7, 1923	Jan. 24, 1924
1	2 a.c.s-r.	None	None	C.P. 889	.....	Sept. 7, 1922	Oct. 25, 1922

\* All Browne &amp; Sharpe gauge, except where otherwise noted.

† Birmingham wire gauge.

**DESCRIPTION**  
**NIAGARA SYSTEM—**

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt- age
<b>Lines terminating</b>								
1569 x 33	165	Pole No. 333.....	Can. Salt Co. dist. sta.	40	132	0.41	18	26,400
1569 x 39	.....	Pole No. 333.....	Sandwich dist. sta....	45	132	1.08	45	26,400
1577x38a	.....	Pole No. 383.....	Belle River dist. sta....	.....	.....	4.60	184	26,400
1563 x 78	188	Pole No. 231.....	Canard River dist. sta.	35	160	6.00	190	26,400
1572 x 42	190	Pole No. 642.....	Amherstburg dist. sta.	35	160	2.30	78	26,400
1572 x 43	191	Pole No. 642.....	Harrow dist. sta.....	35	160	12.75	401	26,400
1574 x 44	193	Pole No. 1374.....	Kingsville dist. sta....	35	160	0.50	7	26,400
1575 x 45	195	Pole No. 1412.....	Leamington dist. sta....	35	160	7.50	289	26,400
1576 x 46	187	Pole No. 1605.....	Cottam dist. sta.....	35	160	0.80	22	26,400
1576 x 47	197	Pole No. 1605.....	Essex dist. sta.....	35	160	4.70	157	26,400

<b>Lines terminating</b>								
1563 x 69	185	Pole No. 231.....	Pole No. 333.....	40	132	2.39	101	26,400
15x1563b	185	Essex trans. sta.....	Pole No. 231.....	40	132	5.30	231	26,400
1578 x 72	189	Canard River dist. sta..	Pole No. 642.....	35	160	7.25	220	26,400
1543 x 74	192	Harrow dist. sta.....	Pole No. 1374.....	35	160	9.70	334	26,400
1574 x 75	194	Pole No. 1374.....	Pole No. 1412.....	35	160	0.70	38	26,400
1575 x 76	196	Pole No. 1412.....	Pole No. 1605.....	35	160	5.20	193	26,400
15 x 1562	81	Essex trans. sta.....	Pole No. 55.....	45	120	1.10	55	26,400
15x1577a	.....	Essex trans. sta.,.....	Pole No. 383.....	.....	.....	9.38	383	26,400

a N15 x 1577 and N1577 x 38 carried on telephone pole N14 x 15.

b N15 x 1563 1-cir. 2 copper erected only Feb. 1, 1919.

**NIAGARA SYSTEM—**

**Lines terminating**

N.	L.T.							
1671 x 11	.....	Jct. Pole No. 74.....	New Mimico mun. sta.	50	.....	0.06	4	13,200
1663 x 3	34	Jct. Pole No. 250.....	Weston mun. sta.....	40	120	1.62	75	13,200
1667 x 7	110B	Jct. Pole No. 33.....	Asylum Brick Yard...	Not owned	by H. E.P.C.	.....	.....	.....

**Lines terminating**

1666 x 31	155	Jct. Pole No. 122.....	Etobicoke dist. sta....	40	125	0.21	10	13,200
1661 x 32	51	Jct. Pole No. 332.....	Mimico.....	40	120	0.46	18	13,200
1663 x 34	107	Jct. Pole No. 250.....	Woodbridge dist. sta..	35	132	6.44	276	13,200

## OF LINES

## ESSEX DISTRICT—SYMBOL N15—Continued

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at distributing stations							
2	1/0 copper	9 galv. iron †	1/4" galv. steel	C.P. 889	.....	July 10, 1917	Nov. 9, 1917
1	2 a.c.s-r.	9 galv. iron †	None	C.P. 889	.....	July 4, 1924	Aug. 5, 1924
1	5/16" galv. steel	None	None	C.P. 889	.....	Oct. 4, 1922	Dec. 5, 1922
1	1/0 aluminum	None	None	8 1/2" x 10" similar to O.B.	69	April, 1914	Nov., 1914
2	1/0 aluminum	None	None	8 1/2" x 10" similar to O.B.	.....	July, 1913	Nov., 1914
1	1/0 aluminum	None	None	8 1/2" x 10" similar to O.B.	.....	July, 1913	Nov., 1914
2	1/0 aluminum	6 a.c.s-r.	None	No. 9416	.....	July, 1913	Nov., 1914
1	1/0 aluminum	None	None	No. 9416	.....	May, 1915	Aug., 1915
1	1/0 aluminum	None	None	No. 9416	.....	Aug., 1915	Oct., 1915
1	1/0 aluminum	6 a.c.s-r	None	No. 9416	.....	Aug. 1915	Sept., 1915

## at junctions

2	1/0 copper	9 galv. iron †	1/4" galv. steel	C.P. 889	.....	July 10, 1917	Nov. 9, 1917
3	1/0 cop., 2-cir.	9 galv. iron †	1/4" galv. steel	C.P. 889	39	July 10, 1917	Nov. 9, 1917
	2 bare str., 1-cir. copper						
1	1/0 aluminum	None	None	8 1/2" x 10" similar to O.B.	.....	May, 1914	Nov. 1914
1	1/0 aluminum	None	None	8 1/2" x 10" similar to O.B.	.....	June, 1913	Nov., 1914
1	1/0 aluminum	6 a.c.s-r.	None	8 1/2" x 10" similar to O.B.	.....	July, 1915	Aug., 1915
1	1/0 aluminum	6 a.c.s-r.	None	No. 9416	.....	Aug., 1915	Sept., 1915
4	3/0 aluminum	10 c-c. steel	1/4" galv. steel	C.P. 102	4	July 28, 1914	Sept. 6, 1914
1	1/0 a.c.s-r.	None	None	C.P. 889	.....	Oct. 4, 1922	Dec. 5, 1922

## YORK DISTRICT—SYMBOL N16

## at customers

2	4 copper	9 galv. iron	None	.....	.....	Mar. 21, 1924	Mar. 27, 1924
2	1-3/0 a.c.s-r.	8 c-c. steel	1/4" steel	O.B. 12546	75	April 19, 1911	July 24, 1911
	1-2 aluminum			Thom 2041	.....		

## at distributing stations

2	1/0 copper	9 galv. iron †	9/32" steel	O.B. 11622	8	Feb. 9, 1917	Oct. 10, 1919
1	2 aluminum	8 c-c. steel	1/4" steel	Thom 2041	18	.....	.....
1	1/0 aluminum	10 c-c. steel	1/4" steel	C.P. 136	197	Sept. 25, 1914	Dec. 2, 1914

\* All Browne & Sharpe gauge except where otherwise noted.

† Birmingham wire gauge.



**DESCRIPTION**  
**NIAGARA SYSTEM—**

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
<b>Lines terminating</b>								
1631 x 61	36	Etobicoke dist. sta. ....	Jct. Pole No. 332. ....	45	120	0.11	6	13,200
16x1663a	.....	York H. T. sta. ....	Jct. Pole No. 250. ....	40	120	5.49	250	13,200
1671 x 66	155	Mimico Jct. ....	Jct. Pole No. 122. ....	40	125	0.99	50	13,200
16 x 1671	155	York H. T. sta. ....	Jct. Pole No. 74. ....	40	125	1.60	74	13,200

a From York trans. sta. to Pole No. 82; tel. line consists of 1 cir. No. 10 c-c. steel and 1 cir.

**THOROLD SYSTEM—**

I. 51 x 1	L.T. .....	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
		Jct. Pole No. 372 O.P. Co. lines	Thorold dist. sta. ....	35	120	1.04	46	12,000

**ONTARIO POWER COMPANY—**

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
2 x 71d	1 & 2	O.P.Co. trans. sta. ....	Nia. River crossing... No. 1 Trunk... No. 2 Trunk...	50 50	550 550	6.01 6.01	towers 73 72	60,000 60,000
15 x 2	22 & 23	Tor. Power Co. ....	O.P.Co. trans. sta. ....	40	120	1.10	poles 59	12,000
2 x 261	C. & D.	O.P.Co. dist. sta. ....	Pole No. 18 (Allen & Murray).....	40	120	0.25	18	12,000
2 x 264	A. & B.	O.P.Co. dist. sta. ....	Pole No. 355 (Pt. Robinson).....	35	120	6.56	355	12,000
264 x 76	A. & B.	Pole No. 355 (Pt. Robinson).....	Pole No. 417 (Glass Co.).....	35	120	1.48	62	12,000
276 x 78	A. & B.	Pole No. 417 (Glass Co.)	Pole No. 441 (Beaver Co.).....	35	120	0.53	24	12,000
278 x 79	A. & B.	Pole No. 441 (Beaver Co.).....	Pole No. (J. & K.) ...	35	120	0.72	31	12,000
276 x 16b	A. & B.	Pole No. 417 (Glass Co.)	Pilkington Glass Co...	35	120	0.04	1	12,000
278 x 18	A. & B.	Pole No. 441 (Beaver Co.).....	Beaver Board Co....	35	120	0.04	2	12,000
264 x 4	A. & B.	Pole No. 355 (Pt. Robinson).....	Pt. Robinson Steel....	35	120	2.60	123	12,000
270 x 10	C. & D.	Pole No. 136 (Ramapo Co.).....	Ramapo Iron Works..	35	120	0.80	36	12,000
2 x 63	E. & F.	O.P.Co. trans. sta. ....	Pole No. 590 (12 & 30-kv.).....	35	120	12.50	590	30,000
63 x 72	E. & F.	Pole No. 590 (12 & 30-kv.).....	Pole No. 621 (Electro Metals).....	50	100	0.75	22	30,000

NOTE: For inter-connected lines at 12,000 volts, see Niagara System, Niagara District—Symbol NI-  
b A276 x 16 tap owned by Pilkington Glass Co.

d Second circuit of No. 12 iron tel. carried on N160 x 75, 175 x 69, 169 x 73, then on A2 x 71 to

## OF LINES

## YORK DISTRICT—SYMBOL N16—Continued

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at junctions							
2	1-2 a.c.s-r.	8 c-c. steel	1/4" steel	Thom 2041	.....	April 26, 1911	Feb. 29, 1912
2	1-2 aluminum	8 c-c. steel	1/4" steel	O.B. 12546		April 19, 1911	July 24, 1911
2	1-3/0 a.c.s-r.	10 c-c. steel	5/16" steel	Thom 2041	15	Aug. 3, 1922	Nov. 19, 1922
2	1/0 copper	9 galv. iron †	9/32" steel	O.B. 11622	26	Feb. 9, 1917	Oct. 10, 1919
2	1/0 copper	9 galv. iron †	9/32" steel	O.B. 11622	74	Feb. 9, 1917	Oct. 10, 1919

of No. 6 a.c.s-r.

## SYMBOL "I"

1	3 copper	12 galv. iron †	None	Vic. 407	.....	.....	1912
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## SYMBOL "A"

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
1	820,000 c.m. al.	10 copper....	None	C.P. 2325 C.P. 1530 Thom 14/0	.....	1904	July 22, 1906
1	820,000 c.m. al.	.....	None	C.P. 2133	.....	Re-insul. 1904	Sept., 1924 July 22, 1906
2	500,000 c.m. al.	9 galv. iron †	None	Vic. 407	.....	1915	Oct., 1915
2	345,000 c.m. al.	None	None	Vic. 407	.....	.....	Nov. 5, 1910
2	345,000 c.m. al.	9 galv. iron †	None	Vic. 407	43	.....	Oct. 12, 1906
2	345,000 c.m. al.	9 galv. iron †	None	Vic. 407	35	.....	.....
2	345,000 c.m. al.	9 galv. iron †	None	Vic. 407	24	.....	.....
2	345,000 c.m. al.	9 galv. iron †	None	Vic. 407	17	.....	Dec. 11, 1913
2	345,000 c.m. al.	9 galv. iron †	None	Vic. 407	.....	.....	Oct. 12, 1906
2	345,000 c.m. al.	9 galv. iron †	None	Vic. 407	.....	.....	Dec. 11, 1913
1	3 copper	9 galv. iron †	None	Vic. 407	.....	.....	Oct. 12, 1906
1	3 copper	None	None	Vic. 407	.....	.....	July 14, 1907
2	345,000 c.m. al.	12 galv. iron †	None	Vic. 2872	13	Built 1908 reinsul. 1912	Sept. 28, 1913
2	345,000 c.m. al.	12 galv. iron †	None	Vic. 2872	.....	Built 1908 reinsul. 1912	Sept. 28, 1913

\*All Browne &amp; Sharpe gauge except where otherwise noted.

†Birmingham wire gauge.

Niagara river crossing.

DESCRIPTION  
ONTARIO POWER COMPANY—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt- age
72 x 3a	E. & F.	Pole No. 621 (Electro Metals).....	Pt. Colborne dist. sta.	35	100	5.50	313	30,000
72 x 12	E. & F.	Pole No. 621 (Electro Metals).....	Electro Metals Co....	50	120	0.04	1	30,000
261 x 81	G. & H.	Pole No. 18 (Allen & Murray).....	Pole No. 61.....	35	120	1.15	61	12,000
281 x 72	G. & H.	Pole No. 61.....	Pole No. 579 (Electro Metals).....	30	120	11.77	518	12,000
272 x 74	G. & H.	Pole No. 579 (Electro Metals).....	Pole No. 591 (Page Hersey).....	35	120	0.22	12	12,000
274 x 45	G. & H.	Pole No. 591 (Page Hersey).....	Dain Manuf. Co.....	35	120	1.25	64	12,000
274 x 14	G. & H.	Pole No. 591 (Page Hersey).....	Page Hersey Co.....	35	120	0.20	9	12,000
272 x 12	G. & H.	Pole No. 579 (Electro Metals).....	Electro Metals Co....	45	120	0.36	17	12,000
272 x 73	G. & H.	Pole No. 579 (Electro Metals).....	Pole No. 586 (Can. Steel).....	35	120	0.13	7	12,000
273 x 13	G. & H.	Pole No. 586 (Can. Steel)	Can. Steel Foundry...	35	120	0.25	11	12,000
273 x 80	G. & H.	Pole No. 586 (Can. Steel).....	Pole No. 589 (Empire Cotton).....	45	120	0.08	3	12,000
280 x 20	G. & H.	Pole No. 589 (Empire Cotton).....	Empire Cotton Co....	35	120	1.30	71	12,000
15 x 81	G. & H.	Tor. Power Co. gen. sta.	Pole No. 61.....	35	120	0.70	31	12,000
2 x 279	J. & K.	O.P. Co. trans. sta....	Pole No. (A. & B.) ...	35	120	6.70	327	12,000
277 x 63c	J. & K.	Pole No. 329 (Con. Red)	Pole No. 372 (Thorold)	35	120	0.94	43	12,000
279 x 77	J. & K.	Pole No. (A. & B.) ....	Ont. Paper structure..	35	120	0.13	6	12,000
263 x 38	J. & K.	Pole No. 372 (Thorold)	Merritton sta.....	35	120	2.20	108	12,000
277 x 17	J. & K.	Pole No. 329 (Con. Red)	Con. Reduction Co....	35	120	0.44	17	12,000
2 x 209	L. & M.	O.P. Co. dist. sta.....	Amer. Cyan. Co., plant No. 1.....	35	120	2.60	137	12,000
2 x 269	O. & P.	O.P. Co. dist. sta.....	Pole No. 80 (Nia. Falls)	35	120	1.40	80	12,000
269 x 9	O. & P.	Pole No. 80 (Nia. Falls)	Amer. Cyan. Co., plant No. 2.....	35	120	1.00	52	12,000
2 x 281	.....	O.P. Co. dist. sta.....	Pole No. 72 (Montrose)	35	120	1.40	72	12,000
281 x 6	.....	Pole No. 72 (Montrose)	Montrose sub. sta....	35	120	1.20	53	12,000
281 x 65	R. & S.	Pole No. 72 (Montrose)	Pole No. 195 (Chip-pawa).....	35	120	2.40	123	12,000
3 x 334	W. & X.	Pt. Colborne sub sta....	Cork Co.....	40	120	0.18	8	12,000
363 x 303	Y. & Z.	Pole No. 12 (Can. Cement).....	Can. Cement Co.....	40	120	1.00	55	12,000
3 x 363	Y. & Z.	Pt. Colborne sub sta....	Pole No. 12 (Can. Cement).....	40	120	0.15	12	12,000
2 x 201	.....	O.P. Co. trans. sta....	H.E.P.C. (cable).....					12,000
2 x 207	.....	O.P. Co. dist. sta....	Nia. Falls W.W. (cable).....					12,000

a A72 x 3 line owned by Dept. of Railways & Canals.

c A277 x 63 underground cable from A277 to Welland Canal.



## OF LINES

## SYMBOL "A"—Continued

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
2	211,950 c.m. al.	12 galv. iron†	None	.....	.....	Built 1908	.....
2	2/0 copper	12 galv. iron†	None	Vic. 2872	.....	reinsul. 1912	Sept., 1913
2	345,000 c.m. al.	12 galv. iron†	None	Vic. 407	.....	.....	Nov. 5, 1910
2	345,000 c.m. al.	12 galv. iron†	None	Vic. 407	.....	.....	Nov. 5, 1910
2	3 copper	12 galv. iron†	None	Vic. 407	.....	.....	Aug. 16, 1913
1	3 copper	12 galv. iron†	None	Vic. 407	.....	.....	Aug. 16, 1913
2	3 copper	12 galv. iron†	None	Vic. 407	.....	.....	1911
2	3 copper, 1-cir., 2/0 cop., 1-cir.	None	None	Vic. 407	.....	.....	.....
2	345,000 c.m. al., 1-cir.	None	None	Vic. 407	.....	.....	.....
2	173,000 c.m. al., 1-cir.	None	None	Vic. 407	.....	.....	1906
2	3 copper	None	None	Vic. 407	.....	.....	.....
2	173,000 c.m. al., 1-cir.	None	None	Vic. 407	.....	.....	.....
2	345,000 c.m. al., 1-cir.	None	None	Vic. 407	.....	.....	.....
2	173,000 c.m. al., 1-cir.	None	None	Vic. 407	.....	.....	May 3, 1913
2	345,000 c.m. al.	None	None	Vic. 407	23	.....	Apr. 11, 1909
2	345,000 c.m. al.	12 galv. iron†	None	Vic. 407	.....	.....	Sept. 10, 1912
2	500,000 c.m. al.	12 galv. iron†	None	Vic. 407	.....	.....	May 6, 1908
2	3 copper	12 galv. iron†	None	Vic. 407	.....	.....	.....
2	345,000 c.m. al.	10 cop., 2-cir.	None	C.P. 793	.....	.....	July 31, 1924
2	190,000 c.m. cop	12 galv. iron†	None	Vic. 407	.....	.....	Oct. 6, 1912
2	173,000 c.m. al.	12 galv. iron†	None	Vic. 407	.....	.....	May 6, 1908
2	6 copper	12 galv. iron†	None	Vic. 407	.....	.....	.....
2	500,000 c.m. al.	None	None	Vic. 407	.....	.....	June 24, 1913
2	500,000 c.m. al.	12 galv. iron†	None	Vic. 407	.....	.....	Mar. 31, 1914
2	500,000 c.m. al.	None	None	Vic. 407	.....	.....	Mar. 31, 1914
2	173,000 c.m. al.	None	None	Vic. 407	48	.....	Apr. 11, 1909
2	336,400 c.m. a.c.s-r.	9 galv. iron†	None	O.B. 12546	.....	.....	Dec. 8, 1919
2	173,000 c.m. al.	9 galv. iron†	None	O.B. 12546	9	.....	July 5, 1910
1	173,000 c.m. al.	None	None	Vic. 407	.....	.....	Nov. 12, 1911
2	2/0 copper	9 galv. iron†	None	Vic. 407	20	.....	May 1, 1908
2	2/0 copper	9 galv. iron†	None	Vic. 407	.....	.....	May 1, 1908

For inter-connected lines at 12,000 volts see Niagara System, Niagara District—Symbol N1.

\* All Browne &amp; Sharpe gauge, except where otherwise noted.

† Birmingham wire gauge.

**DESCRIPTION**  
**TORONTO POWER COMPANY—**

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
<b>Lines terminating</b>								
1 x 24 <sup>b</sup>	.....	Niagara gen. sta. ....	Can. Nia. Power Co. ....	.....	.....	0.23	.....	.....
2 x 25	.....	Niagara trans. sta. ....	Ont. Power Co. ....	45	150	0.19	10	12,000
<b>Lines terminating</b>								
B1 x 2	.....	Nia. Falls gen. sta. ....	Nia. Falls trans. sta. ....	towers	.....	0.38	.....	12,000
B50 x 6a	.....	Fonthill inter. switch...	Welland trans. sta. ....	45	150	7.49	242	60,000
B50 x 5	.....	Fonthill inter. switch...	Thorold trans. sta. ....	45	150	4.74	172	60,000
B82 x 3	.....	Wiltshire ave. jct. ....	Davenport trans. sta. ....	45	300	2.50	50	90,000
				45	300	2.50	51	110,000
<b>Lines terminating</b>								
B2 x 50	{ one	Nia. Falls trans. sta. ....	Fonthill inter. switch	40	340	9.00	151	60,000
B2 x 51	{ r. of w.	Nia. Falls trans. sta. ....	Oxley inter. switch....	53	500	10.8	91	90,000
B51x66 <sup>d</sup>	.....	{ Oxley inter. switch....	Islington jct. ....	53	500	61.4	601	90,000
B51x66	.....	{ Oxley inter. switch....	Islington jct. ....	40	350	63.2	956	60,000
B66x82	.....	{ Islington jct. ....	Wiltshire ave. jct. ....	53	600	4.5	73	90,000
B66x82 <sup>e</sup>	.....	{ Islington jct. ....	Wiltshire ave. jct. ....	40	300	4.5	59	110,000

a 50 x 6 line carried on steel towers from Fonthill Inter. switch to tower No. 17—0.97 miles, 242 c 1 x 2 underground cables, 21 cables of 500,000 c.m. copper.

d 3-190,000 c.m. cables removed from mileage 10.8 (Oxley) to mileage 40.0 (Gages), and from

Two 60,000-volt circuits across Burlington Beach have been insulated for 110,000 volts and e Towers and r. of w. only. For conductor, see N66 x 82 and N82 x 31.

For inter-connected lines, see Niagara System, 110,000-volt, steel-tower lines.

**TORONTO**

<b>Lines terminating</b>								
368 x 1	.....	Don. jct., Pole No. 336.	T.H.E.S., Winchester St	.....	Right	of way	only.	.....
332 x 3a	.....	Keele St. dist. sta. ....	Tor.Sub. Rly., Islington	40	350	3.50	.....	12,000
364 x 4	.....	Kipling ave. jct. ....	Goodyear Co. ....	40	120	3.09	146	12,000
366 x 35	.....	{ Bayview jct, 243. ....	Can. Wire Co. ....	45	120	0.81	36	12,000
.....	.....	{ C.WireCo., Pole No. 277	Durant Motor Co. ....	45	100	0.13	7	12,000
3 x 359 <sup>b</sup>	.....	Toronto trans. sta. ....	Bathurst Arrest. House	.....	.....	.....	.....	12,000
<b>Lines terminating</b>								
3 x 332 <sup>c</sup>	.....	Toronto trans. sta. ....	Keele St. dist. sta. ....	40	300	3.50	.....	12,000
358 x 32	.....	Campbell Av. Arr. Hse.	Keele St. dist. sta. ....	45	100	1.05	53	12,000
368 x 38	.....	Don. jct., Pole No. 336.	Blantyre dist. sta. ....	45	110	5.54	277	12,000
304 x 69	.....	Goodyear Co. ....	L.S. Road terminus...	40	100	0.55	30	12,000

a 332 x 3—Towers on this section included in 82 x 3 and 66 x 82.

b 3 x 359—Underground cable, conduit owned by T.H.E.S.

c 3 x 332—60,000-volt steel-tower line operated at 120-volts, 110-kv. Towers included on 82 x 3.

## OF LINES

## SYMBOL "B"—HIGH-TENSION LINES

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
<b>at customers</b>							
12	duct run.	.....	.....	.....	.....	.....	1912
3	2-cir. 115 000 c.m. copper	None	None	C.P. 793	.....	.....	1917
	1-cir. 190 000 c.m. copper						

**at transformer stations**

.....	50,000 c.m. cop.	U.G. 48 ducts	.....	.....	.....	.....	1905
1	115,000 c.m.cop	10 copper	3/8" galv. steel	C.P. 492	.....	.....	1916
1	190,000 c.m.cop	10 copper	3/8" galv. steel	C.P. 492	.....	.....	1917
2	190,000 c.m.cop	U.Gd. cable	.....	C.P. 1530	.....	.....	1913
2				(1916-7) C.P. 3880	.....	.....	

**at junctions**

2	190,000 c.m.cop	None	3/8" galv. steel	C.P. 492	.....	1904	1905
2	190,000 c.m.cop	None	3/8" galv. steel	C.P. 492	.....	1912	1913
2	190,000 c.m.cop	None	3/8" galv. steel	C.P. 1530	.....	1912	1913
2	190,000 c.m.cop	None	3/8" galv. steel	Old Niagara type	.....	1904	1905
2	190,000 c.m.cop	None	3/8" galv. steel	C.P. 1530	.....	1912	1913
2	190,000 c.m.cop	None	3/8" galv. steel	C.P. 3880	.....	.....	1924

wood poles and 17 steel towers. b 1 x 24 underground cables property of Buffalo General Electric Co.

mileage 45.0 (Burlington) to mileage 71.5 (Kipling ave.).  
have been temporarily used for Niagara System.

## DISTRICT

**at customers**

1	190,000 c.m.cop	None	3/8" galv. steel	60,000 volts	.....	.....	1905
				C.P. 793	.....	.....	
1	190,000 c.m.cop	None	None	C.P. 793	26	.....	1921
1	115,000 c.m.cop	None	3/8" galv. steel	C.P. 793	23	.....	1916
1	115,000 c.m.cop	None	3/8" galv. steel	C.P. 793	.....	.....	1922
2	2/0 copper	.....	.....	.....	.....	.....	1913

**at distributing stations**

1	190,000 c.m.cop	None	None	60,000 volts	.....	.....	1905
				C.P. 793	.....	.....	
2	115,000 c.m.cop	10 copper	3/8" galv. steel	C.P. 793	49	.....	1912
1	115,000 c.m.cop	None	3/8" galv. steel	C.P. 793	.....	.....	1912
1	190,000 c.m.cop	None	None	C.P. 793	.....	.....	1921

For inter-connected Tor. Power Co. lines purchased by Commission, see page 562.

\* All Browne & Sharpe gauge, except where otherwise noted.



**DESCRIPTION**  
**TORONTO POWER COMPANY—**  
**TORONTO**

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
<b>Lines terminating</b>								
B.								
303 x 64a	.....	Tor. Sub. Rly. Islington.	Kipling ave. jct. ....	40	300	1.00	.....	12,000
359 x 65	.....	Bathurst Arrest. House.	Eglinton ave. jct. 182..	45	100	3.39	182	12,000
365 x 66	.....	Eglinton ave. jct. 182..	Bayview jct. 243. ....	45	100	1.29	61	12,000
366 x 68	.....	Bayview jct. 243. ....	Don. jct. 336. ....	45	110	1.76	94	12,000

a For towers, see 50 x 66, 60-kv. towers one-circuit operated at 12-kv.

**THOROLD**  
**Lines terminating**

5 x 503b	.....	Thorold trans. sta. ....	Nia. St. C. & Tor. Rly.	45	100	0.49	26	12,000
5 x 501	.....	Thorold trans. sta. ....	Exolon Co. ....	40	125	0.15	8	12,000
5 x 502a	.....	Thorold trans. sta. ....	Riordon Co. ....	45	150	2.05	80	12,000
502 x 6	.....	Riordon Co. ....	Inter-Lake Tissue Mills	40	150	0.62	20	12,000

**Lines terminating**

5 x 564	.....	Thorold trans. sta. ....	Welland Canal. ....	40	150	1.14	45	12,000
263 x 77	.....	Mitchell inter. switch..	Ont. Paper Co. inter sw	40	150	4.72	192	12,000

a 5 x 502—1-circuit 190,000 c.m. copper to pole No. 26, and 1-circuit 115,000 c.m. copper from pole  
b 5 x 503—Line carried on Niagara St. C. and Toronto Rly. poles on railway right-of-way.

**NIAGARA**  
**Lines terminating**

263 x 3a	.....	Mitchell inter. switch..	{ Nia. St. C. & Tor. Rly.. { Nia. Falls & Nat. A. Co.	45	150	1.92	74	12,000
2 x 201b	.....	Niagara trans. sta. ....	Aloxite Co. ....	45	125	0.59	26	12,000

**Lines terminating**

2 x 263	.....	Niagara trans. sta. ....	Mitchell inter. switch .	40	175	3.74	127	12,000
---------	-------	--------------------------	--------------------------	----	-----	------	-----	--------

a 263 x 3, 1-circuit of 190,000 c.m. copper to National Abrasive Co. and 1-circuit of 115,000 c.m.  
b 2 x 201, carried on own poles from Niagara trans. sta. to pole No. 9 = 0.22 miles, then on Can. = 0.08 miles. Total, 0.59 miles.

**WELLAND**  
**Lines terminating**

6 x 601	73A	Welland trans. sta. ....	Electro Metals Co. ....	45	100	0.42	20	12,000
6 x 601	71 & 72	Welland trans. sta. ....	Electro Metals Co. ....	45	125	0.35	17	12,000

## OF LINES

## SYMBOL "B"—Continued

## DISTRICT—Continued

No. of circuits	Size of material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at junctions							
1	190,000 c.m.cop	None	$\frac{3}{8}$ " galv. steel	C.P. 793	.....	.....	1905
2	115,000 c.m.cop	None	$\frac{3}{8}$ " galv. steel	C.P. 793	85	.....	1910
1	115,000 c.m.cop	None	$\frac{3}{8}$ " galv. steel	C.P. 793	16	.....	1912
1	115,000 c.m.cop	None	$\frac{3}{8}$ " galv. steel	C.P. 793	68	.....	1912

## DISTRICT

## at customers

1	115,000 c.m.cop	10 copper	None	C.P. 793	.....	.....	1917
1	115,000 c.m.cop	10 copper	$\frac{3}{8}$ " galv. steel	C.P. 793	.....	.....	1917
1	190,000 c.m.cop	10 copper	$\frac{3}{8}$ " galv. steel	C.P. 793	.....	.....	1917
1	115,000 c.m.cop	10 copper	$\frac{3}{8}$ " galv. steel	C.P. 793	.....	.....	1917

## at junctions

2	190,000 c.m.cop	10 copper	$\frac{3}{8}$ " galv. steel	C.P. 793	.....	.....	1917
2	190,000 c.m.cop	10 copper	$\frac{3}{8}$ " galv. steel	C.P. 793	18	.....	1917

No. 26 to Riordon Co.

## DISTRICT

## at customers

2	1-cir. 190,000 c.m. copper	14 c-c. steel	None	C.P. 793	.....	.....	1918
1	1-cir. 115,000 c.m. copper	None	$\frac{3}{8}$ " galv. steel	C.P. 793	.....	.....	1917
1	190,000 c.m.cop	None	$\frac{3}{8}$ " galv. steel	C.P. 793	.....	.....	1917

## at junctions

2	190,000 c.m.cop	10 copper	$\frac{3}{8}$ " galv. steel	C.P. 793	.....	.....	1918
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copper to Niagara, St. C. and Toronto Rly.

Niagara Power Co. poles No. 10 to 23=0.29 miles, then on own poles from No. 24 to 26

## DISTRICT

## at customers

1	190,000 c.m.cop	None	None	C.P. 793	.....	.....	1916
2	190,000 c.m.cop	10 copper	None	C.P. 793	.....	.....	1916

\* All Browne &amp; Sharpe gauge, except where otherwise noted.

DESCRIPTION  
GEORGIAN BAY SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
<b>Lines terminating</b>								
S. 51 x 1	S.L. .....	Pole No. 586.....	Midland dist. sta.....	40	100	2.40	117	22,000
1 x 2	17	Midland dist. sta.....	Penetang dist. sta....	40	120	3.03	143	22,000
72 x 4	22	Pole No. 1590.....	Barrie dist. sta.....	40	120	1.57	64	22,000
60 x 5	9	Pole No. 1786.....	Collingwood dist. sta..	40	120	12.04	525	22,000
56 x 6	2	Pole No. 193.....	Coldwater dist. sta....	40	120	1.16	55	22,000
57 x 7	4	Pole No. 903.....	Elmvale dist. sta.....	40	120	0.42	19	22,000
20 x 9	23	Big Chute gen. sta....	Swift Rapid gen. sta....	30	120	7.50	328	22,000
60 x 10	8	Pole No. 1786.....	Stayner dist. sta.....	40	120	1.50	69	22,000
69 x 19	13	Pole No. 188.....	Victoria Harbor dist. sta.	40	120	1.52	82	22,000
71 x 21	20	Pole No. 401.....	C.P.R. elev. dist. sta..	35	125	1.33	58	22,000
72 x 22 <sup>a</sup>	21	Pole No. 1590.....	Camp Borden dist. sta.	35	132	14.76	604	22,000
84 x 32	29	Pole No. 2701.....	Alliston dist. sta.....	40	125	1.82	86	22,000
83 x 33	32	Pole No. 2984.....	Beeton dist. sta.....	40	125	1.76	84	22,000
83 x 34	31	Pole No. 2984.....	Tottenham dist. sta....	40	125	3.61	177	22,000
87 x 35	27	Pole No. 2282.....	Cookstown dist. sta....	40	125	2.24	98	22,000
86 x 36	35	Pole No. 2021.....	Thornton dist. sta....	40	125	1.85	81	22,000
62 x 37	34	Pole No. 2451.....	Bradford dist. sta.....	40	125	7.25	319	22,000
51 x 11	.....	Pole No. 586.....	Tiffin Elev. dist. sta...	40	125	0.41	17	22,000
54 x 23	.....	Pole No. 1110.....	Phelpston dist. sta....	40	120	1.69	75	22,000
<b>Lines terminating</b>								
20 x 52	11	Big Chute gen. sta....	Waubashene sw. sta.	35	120	12.00	504	22,000
57 x 54	5	Pole No. 903.....	Pole No. 1110.....	40	120	4.57	527	22,000
52 x 56	1	Waubashene sw. sta..	Pole No. 193.....	40	120	3.68	207	22,000
56 x 57	3	Pole No. 193.....	Pole No. 903.....	40	120	15.86	163	22,000
4 x 61	24	Barrie dist. sta.....	Pole No. 1834.....	40	125	3.88	711	22,000
87 x 62	33	Pole No. 2282.....	Pole No. 2451.....	40	125	3.87	180	22,000
52 x 69	12	Waubashene sw. sta..	Pole No. 188.....	40	100	3.59	169	22,000
69 x 71	14	Pole No. 188.....	Pole No. 401.....	40	100	3.59	188	22,000
54 x 72	6	Pole No. 1110.....	Pole No. 1590.....	40	120	4.03	213	22,000
84 x 83	30	Pole No. 2701.....	Pole No. 2984.....	40	120	10.76	480	22,000
35 x 84	28	Cookstown dist. sta....	Pole No. 2701.....	40	125	6.30	283	22,000
61 x 86	25	Pole No. 1834.....	Pole No. 2021.....	40	125	7.35	321	22,000
86 x 87	26	Pole No. 2021.....	Pole No. 2282.....	40	125	4.28	187	22,000
71 x 51	16	Pole No. 401.....	Pole No. 586.....	40	125	5.99	261	22,000
23 x 60	7	Phelpston dist. sta....	Pole No. 1786.....	40	100	3.46	185	22,000

<sup>a</sup> 72 x 22—Line owned by Dept. of Militia and Defence.



## OF LINES

## SEVERN DIVISION—SYMBOL "S"

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
<b>at stations</b>							
2	1-cir. 2/0 al. 1-cir. a.c.s-r.	1-cir. 12 galv. iron† 1-cir. 10 c-c. steel	1/4" galv. steel	{C.P. 889 Pittsburg	116	April 11, 1917	May 22, 1917
2	2 str. copper	10 c-c. steel	1/4" galv. steel	C.P. 889	12	June 7, 1911	July 18, 1911
2	2/0 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2111	42	Nov. 6, 1912	April 6, 1913
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	{C.P. 889 Thom 2111	1	Nov. 1, 1912	Feb. 24, 1913
1	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2111	.....	Sept. 20, 1912	Feb. 24, 1913
1	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2111	.....	Feb. 1, 1913	May 27, 1913
1	2 aluminum	10 copper	5/16" galv. steel	O.B. 9410	.....	.....	.....
1	2 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2111	.....	Jan. 24, 1913	Feb. 25, 1913
1	2 aluminum	12 galv. iron†	1/4" galv. steel	{C.P. 188 Pittsburg	.....	.....	.....
2	1/0 aluminum	9 galv. iron†	1/4" galv. steel	O.B. 12547	.....	Feb. 29, 1916	July 24, 1916
1	6 m.h-d. copper	9 galv. iron†	6 galv. iron†	C.P. 136	.....	May 30, 1916	June 29, 1916
1	125,000 c.m. a.c.s-r.	9 galv. iron†	9/32" galv. steel	C.P. 889	.....	Dec. 8, 1917	May 23, 1918
1	5/16" galv. steel	9 galv. iron†	9/32" galv. steel	C.P. 889	.....	Feb. 28, 1918	July 26, 1918
1	5/16" galv. steel	9 galv. iron†	9/32" galv. steel	C.P. 889	.....	Jan. 30, 1918	Sept. 9, 1918
1	125,000 c.m. a.c.s-r.	9 galv. iron†	1/4" galv. steel	C.P. 889	10	Nov. 8, 1917	April 25, 1918
1	5/16" galv. steel	9 galv. iron†	9/32" galv. steel	C.P. 889	.....	June 15, 1918	Oct. 16, 1918
1	5/16" galv. steel	9 galv. iron†	9/32" galv. steel	C.P. 889	.....	Mar. 19, 1918	Sept. 16, 1918
2	2 a.c.s-r	9 galv. iron†	5/16" galv. steel	C.P. 889	.....	Aug. 25, 1922	Sept. 15, 1922
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	{C.P. 889 Thom 2111	.....	Oct. 23, 1912	Feb. 24, 1913

**at junctions**

2	4/0 aluminum	9 galv. iron†	1/4" galv. steel	Thom 2111	49	.....	1915
2	4/0 a.c.s-r.	12 galv. iron†	.....	.....	.....	.....	.....
2	4/0 aluminum	9 galv. iron†	1/4" galv. steel	Thom 2111	20	Oct. 20, 1912	Feb. 24, 1913
2	4/0 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2111	2	Sept. 20, 1912	Feb. 24, 1913
2	4/0 aluminum	9 galv. iron†	1/4" galv. steel	Thom 2111	24	Sept. 25, 1912	Feb. 24, 1913
1	125,000 c.m. a.c.s-r.	10 c-c. steel	1/4" galv. steel	Thom 2111	.....	Sept. 13, 1917	April 25, 1918
1	5/16" galv. steel	9 galv. iron†	9/32" galv. steel	C.P. 889	.....	May 29, 1918	Sept. 16, 1918
2	1/0 a.c.s-r.	12 galv. iron†	.....	{Pittsburg O.B. 12547	14	April 1, 1916	July 24, 1916
2	2/0 aluminum	12 galv. iron†	.....	{C.P. 133 Pittsburg	.....	Mar. 7, 1916	July 24, 1916
2	2/0 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2111	.....	Nov. 6, 1912	April 6, 1913
1	5/16" galv. steel	9 galv. iron†	9/32" galv. steel	C.P. 889	.....	Jan. 2, 1918	July 26, 1918
1	125,000 c.m. a.c.s-r.	9 galv. iron†	1/4" galv. steel	C.P. 889	.....	Nov. 16, 1917	May 23, 1918
1	125,000 c.m. a.c.s-r.	9 galv. iron†	1/4" galv. steel	C.P. 889	.....	Oct. 6, 1917	April 25, 1918
1	125,000 c.m. a.c.s-r.	9 galv. iron†	1/4" galv. steel	C.P. 889	.....	Oct. 20, 1917	April 25, 1918
2	1-cir. 2/0 alum. 1-cir. 1/0 a.c.s-r.	1-cir. 12 galv. iron† 1-cir. 10 c-c. steel	1/4" galv. steel	{C.P. 889 Pittsburg O.B. 12547	.....	April 11, 1917	May 22, 1917
2	3/0 aluminum	10 c-c. steel	1/4" galv. steel	{C.P. 889 Thom 2111	16	Oct. 23, 1912	Feb. 24, 1913

\* All Browne &amp; Sharpe gauge, except where otherwise noted.

† Birmingham wire gauge.

DESCRIPTION  
GEORGIAN BAY SYSTEM—

New section number	Old section number	From	To	Avg height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt- age
<b>Lines terminating</b>								
E.	E.F.L.							
57 x 29		Pole No. 1007.....	Dur. Russill dist. sta..	35	.....	0.05	2	22,000
65 x 2	2	Pole No. 1141A.....	Owen Sound dist. sta..	40	125	5.28	227	22,000
52 x 3	1	Pole No. 316.....	Chatsworth dist. sta..	40	125	15.27	658	22,000
17 x 4	8	Elmwood dist. sta.....	Chesley dist. sta.....	40	125	6.07	259	22,000
55 x 5	9	Pole No. 297.....	Dundalk dist. sta.....	40	125	11.44	499	22,000
57 x 7	4	Pole No. 971.....	Durham dist. sta.....	40	125	0.17	14	22,000
54 x 28	11	Pole No. 1491.....	Hanover switch sta...	40	125	0.76	33	22,000
59 x 9	5	Pole No. 1326.....	Mt. Forest dist. sta...	40	125	7.49	336	22,000
5 x 10	10	Dundalk dist. sta.....	Shelburne dist. sta....	40	125	13.12	565	22,000
64 x 11	20	Pole No. 373.....	Collingwood dist. sta..	35	125	15.86	697	22,000
62 x 12	17	Pole No. 1987.....	Orangeville dist. sta...	30	130	0.36	21	22,000
63 x 13	6	Pole No. 1798.....	Grand Valley dist. sta.	35	132	8.98	384	22,000
65 x 15	15	Pole No. 1141A.....	Kilsyth dist. sta.....	40	125	4.80	206	22,000
54 x 17	8	Pole No. 1491.....	Elmwood dist. sta.....	40	125	4.99	214	22,000
55 x 18	4	Flesherton Pole 297.....	Priceville dist. sta....	40	125	5.71	243	22,000
74 x 25		Kinloss Pole No. 2393.....	Kincardine dist. sta...	35	132	12.71	517	22,000
74 x 24		Kinloss Pole No. 2393.....	Holyrood dist. sta....	35	132	6.20	224	22,000
72 x 22		Wingham Pole No. 2759.....	Wingham dist. sta.....	35	132	4.11	170	22,000
71 x 21		Teeswater Pole No. 2172.....	Teeswater dist. sta....	35	132	7.01	284	22,000
76 x 26		Walkerton Quarry, 1977.....	Walkerton Quarry sta.	35	132	0.25	12	22,000
30 x 31		Harriston dist. sta.....	Mt. Forest dist. sta...	35	175	10.54	331	26,400
64 x 14		Pole No. 373.....	Meaford dist. sta.....	35	175	14.50	457	22,000
<b>Lines terminating</b>								
1 x 52	1	Eugenia gen. sta.....	Pole No. 316.....	40	125	7.28	316	22,000
58 x 54	7	Pole No. 964.....	Pole No. 1491.....	40	125	12.11	527	22,000
1 x 55	3	Eugenia gen. sta.....	Pole No. 297.....	40	125	6.78	297	22,000
57 x 29	5	Pole No. 971.....	Pole No. 1007.....	40	125	0.84	36	22,000
58 x 57	4	Pole No. 964.....	Pole No. 971.....	40	125	0.12	7	22,000
18 x 58	4	Priceville dist. sta.....	Pole No. 964.....	40	125	9.97	423	22,000
29 x 59	5	Pole No. 1007.....	Pole No. 1326.....	40	125	7.36	319	22,000
10 x 60	17	Shelburne dist. sta.....	Pole No. 1380.....	30	130	0.40	21	22,000
63 x 62	17	Pole No. 1798.....	Pole No. 1987.....	30	130	4.44	189	22,000
60 x 63	17	Pole No. 1380.....	Pole No. 1798.....	30	130	10.20	418	22,000
1 x 64	19	Eugenia gen. sta.....	Pole No. 373.....	35	125	8.35	373	22,000
3 x 65	2	Chatsworth dist. sta.....	Pole No. 1141A.....	40	125	3.92	168	22,000
28 x 70		Hanover switch sta.....	Pole No. 1822.....	40	132	7.27	297	22,000
76 x 71		Pole No. 1977.....	Pole No. 2172.....	40	132	4.84	195	22,000
21 x 72		Teeswater dist. sta.....	Pole No. 2758.....	35	132	7.53	303	22,000
71 x 74		Pole No. 2172.....	Pole No. 2393.....	35	132	5.51	222	22,000
70 x 76		Walkerton, pole No. 1822.	Pole No. 1977.....	40	132	3.81	155	22,000

NOTE.—For inter-connected lines see Niagara System—Stratford District—Symbol "N8."



## OF LINES

## EUGENIA DIVISION—SYMBOL "E"

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at stations							
2	3/0 aluminum	9 galv. iron†	9/32" galv. steel	C.P. 889	.....	April 28, 1922	April 30, 1922
2	3/0 aluminum	9 galv. iron†	1/4" galv. steel	C.P. 133	.....	April 7, 1915	Nov. 18, 1915
2	3/0 aluminum	9 galv. iron†	1/4" galv. steel	C.P. 133	.....	Mar. 17, 1915	Nov. 18, 1915
1	3/0 aluminum	9 galv. iron†	1/4" galv. steel	C.P. 133	48	Dec. 4, 1915	June 18, 1916
1	1/0 aluminum	9 galv. iron†	1/4" galv. steel	C.P. 133	24	May 20, 1915	Nov. 18, 1915
2	3/0 aluminum	6 a.c.s-r.	1/4" galv. steel	C.P. 133	.....	April 13, 1915	Nov. 18, 1915
3	1-1/0 a.c.s-r.	9 galv. iron†	1/4" galv. steel	C.P. 133	31	Aug. 18, 1916	Sept. 16, 1916
	2-3/0 a.c.s-r.	6 a.c.s-r.					
2	1-3/0 aluminum	6 a.c.s-r.	1/4" galv. steel	C.P. 133	44	April 26, 1915	Nov. 18, 1915
	1-5/16" steel...						
1	1/0 aluminum	9 galv. iron†	1/4" galv. steel	C.P. 133	62	June 9, 1915	Nov. 18, 1915
1	1/0 copper	9 galv. iron†	1/4" galv. steel	C.P. 889	13	Aug. 14, 1916	Oct. 6, 1916
1	6 copper	10 galv. iron†	.....	C.P. 889	21	Purchased by H.E.P.C. 1916	
				Victor	.....	Built by P.R. Dev. Co. 1911	
1	6 m.h-d copper	9 galv. iron†	1/4" galv. steel	C.P. 889	30	July 21, 1916	Dec. 1, 1916
1	6 galv. iron†	9 galv. iron†	1/4" galv. steel	C.P. 889	.....	Nov. 7, 1916	Jan. 1, 1918
1	3/0 aluminum	9 galv. iron†	1/4" galv. steel	C.P. 133	2	Dec. 4, 1915	June 18, 1916
2	3/0 aluminum	6 a.c.s-r.	1/4" galv. steel	C.P. 133	93	April 13, 1915	Nov. 18, 1915
1	1/0 a.c.s-r.	6 a.c.s-r.	5/16" galv. steel	C.P. 1162	45	Aug. 11, 1920	Jan. 11, 1921
1	5/16" galv. steel	9 galv. iron†	5/16" galv. steel	C.P. 1162	.....	Sept. 13, 1920	Jan. 11, 1921
1	1/0 a.c.s-r.	6 a.c.s-r.	5/16" galv. steel	C.P. 1162	10	Oct. 14, 1920	Dec. 21, 1920
1	1/0 a.c.s-r.	6 a.c.s-r.	5/16" galv. steel	C.P. 1162	22	May 27, 1920	Dec. 19, 1920
1	2 a.c.s-r.	9 galv. iron†	4x12 galv. stl.	C.P. 1162	11	Dec. 1, 1920	Feb. 2, 1921
1	1/0 a.c.s-r.	6 a.c.s-r.	None	C.P. 889	30	June 9, 1923	Oct. 1, 1923
1	2 a.c.s-r.	9 galv. iron†	None	C.P. 889	.....	Sept. 24, 1923	Jan. 31, 1924

## at junctions

2	3/0 aluminum	9 galv. iron†	1/4" galv. steel	C.P. 133	37	Mar. 17, 1915	Nov. 18, 1915
2	1-3/0 a.c.s-r.	6 a.c.s-r.	1/4" galv. steel	C.P. 133	11	Oct. 19, 1915	June 18, 1916
2	1-3/0 aluminum	9 galv. iron†	1/4" galv. steel	C.P. 133	17	April 10, 1915	Nov. 18, 1915
2	3/0 aluminum						
2	1-3/0 aluminum	6 a.c.s-r.	1/4" galv. steel	C.P. 133	32	April 26, 1915	Nov. 18, 1915
2	1-5/16" steel						
2	3/0 aluminum	6 a.c.s-r.	1/4" galv. steel	C.P. 133	.....	April 13, 1915	Nov. 18, 1915
2	3/0 aluminum	6 a.c.s-r.	1/4" galv. steel	C.P. 133	4	April 13, 1915	Nov. 18, 1915
2	1-3/0 aluminum	6 a.c.s-r.	1/4" galv. steel	C.P. 133	15	April 26, 1915	Nov. 18, 1915
2	1-5/16" steel						
1	6 copper	10 galv. iron†	.....	C.P. 889	7	Purchased by H.E.P.C. 1916	
				Victor	.....	Built by P.R. Dev. Co. 1911	
1	6 copper	10 galv. iron†	.....	C.P. 889	39	Purchased by H.E.P.C. 1916	
				Victor	.....	Built by P.R. Dev. Co. 1911	
1	6 copper	10 galv. iron†	.....	C.P. 889	.....	Purchased by H.E.P.C. 1916	
				Victor	.....	Built by P.R. Dev. Co. 1911	
1	1/0 copper	9 galv. iron†	1/4" galv. steel	C.P. 889	.....	Aug. 21, 1916	Oct. 6, 1916
2	3/0 aluminum	9 galv. iron†	1/4" galv. steel	C.P. 133	96	April 7, 1915	Nov. 18, 1915
1	1/0 a.c.s-r.	6 a.c.s-r.	5/16" galv. steel	C.P. 889	.....	May 22, 1920	Dec. 19, 1920
1	1/0 a.c.s-r.	6 a.c.s-r.	5/16" galv. steel	C.P. 889	7	June 8, 1920	Dec. 19, 1920
				C.P. 1162			
1	1/0 a.c.s-r.	6 a.c.s-r.	5/16" galv. steel	C.P. 1162	21	July 9, 1920	Dec. 21, 1920
1	1/0 a.c.s-r.	6 a.c.s-r.	5/16" galv. steel	C.P. 1162	.....	July 30, 1920	Jan. 11, 1921
1	1/0 a.c.s-r.	6 a.c.s-r.	5/16" galv. steel	C.P. 889	49	June 8, 1920	Dec. 19, 1920
				C.P. 1162			

\* All Browne &amp; Sharpe gauge, except where otherwise noted.

† Birmingham wire gauge.



## DESCRIPTION

## GEORGIAN BAY SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
Lines terminating								
W. 52 x 2	W.L. 2	Pole No. 1203.....	Beaverton dist. sta....	40	120	1.49	70	22,000
53 x 3	3	Pole No. 1559.....	Cannington dist. sta..	40	120	1.86	86	22,000
54 x 4	8	Pole No. 183.....	Severn Sys. (Longford)	35	132	6.41	267	22,000
56 x 6	.....	Pole No. 1011.....	Kirkfield dist. sta....	35	150	11.34	412	22,000
3 x 9 a	.....	Cannington dist. sta...	Pinedale dist. sta.....	35	175	7.60	205	22,000
9 x 7	.....	Pinedale dist. sta.....	Greenbank dist. sta...	35	175	8.41	258	22,000

## Lines terminating

54 x 51	1	Pole No. 183.....	Pole No. 832.....	40	120	14.34	649	22,000
56 x 52	1	Pole No. 1011.....	Pole No. 1203.....	40	120	4.32	193	22,000
57 x 53	3	Pole No. 1408.....	Pole No. 1559.....	40	120	3.34	151	22,000
1 x 54	1 & 1A	Wasdells Falls gen. sta.	Pole No. 183.....	40	120	3.94	183	22,000
51 x 56	1	Pole No. 832.....	Pole No. 1011.....	40	120	3.93	178	22,000
52 x 57	3	Pole No. 1203.....	Pole No. 1408.....	40	120	4.47	205	22,000

a W3 x 9. This line carried on W3 x 303 poles from Cannington dist. sta. to Pole No. 39=0.83

## MUSKOKA SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
Lines terminating								
M. 1 x 2	M.L. 1	South Falls gen. sta....	Huntsville dist. sta....	35	132	26.32	1,141	22,000
54 x 4	.....	Pole No. 97.....	Gravenhurst dist. sta.	45	160	0.15	6	38,000
G4 x 6	.....	South Falls gen. sta....	Waubauskene.....	45	450	32.00	424	38,000

NOTE.—For inter-connected lines, see Georgian Bay system, Symbol "G."

## OF LINES

## WASDELLS DIVISION—SYMBOL "W"

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at stations							
1	1/4" galv. steel	10 c-c. steel	1/4" galv. steel	C.P. 136	.....	Mar. 30, 1914	Sept. 28, 1914
1	1/4" galv. steel	10 c-c. steel	1/4" galv. steel	C.P. 136	.....	Feb. 18, 1914	Sept. 28, 1914
1	1/0 aluminum	9 galv. iron †	1/4" galv. steel	C.P. 136	.....	Feb. 17, 1916	June 4, 1916
1	2 a.c.s-r	6 a.c.s-r.	9/32" galv. steel	O.B. 12546	.....	Feb. 10, 1920	April 22, 1920
1	5/16" galv. steel	9 galv. iron †	None	C.P. 133	17	June 21, 1922	Sept. 29, 1922
1	5/16" galv. steel	9 galv. iron †	None	C.P. 133	.....	June 21, 1922	Sept. 29, 1922

## at junctions

1	1/0 a.c.s-r	10 c-c. steel	1/4" galv. steel	{ C.P. 136 C.P. 133	.....	Jan. 17, 1914	Sept. 28, 1914
1	1/0 a.c.s-r.	10 c-c. steel	1/4" galv. steel	{ C.P. 136 C.P. 133	5	Jan. 17, 1914	Sept. 28, 1914
1	1/4" galv. steel	10 c-c. steel	1/4" galv. steel	{ C.P. 136 C.P. 133	.....	Feb. 18, 1914	Sept. 28, 1914
2	{ 1/0 aluminum 1/0 a.c.s-r.	10 c-c. steel	1/4" galv. steel	{ C.P. 136 C.P. 133	.....	Jan. 17, 1914	Sept. 28, 1914
1	1/0 a.c.s-r.	10 c-c. steel	1/4" galv. steel	{ C.P. 136 C.P. 133	34	Jan. 17, 1914	Sept. 28, 1914
1	2 a.c.s-r.	10 c-c. steel	1/4" galv. steel	{ C.P. 136 C.P. 133	.....	Feb. 18, 1914	Sept. 28, 1914

miles.

## SYMBOL "M"

No. of circuits	Size of material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at stations							
1	2 a.c.s-r.	9 galv. iron †	1/4" galv. steel	O.B. 12547	.....	Aug. 6, 1915	Aug. 15, 1916
1	2 a.c.s-r.	{ 2-3x12 galv. steel	None	C.P. 2133	.....	.....	.....
1	4/0 a.c.s-r.	{ 2-3x12 galv. steel	None	C.P. 2133	.....	Mar. 10, 1924	Nov. 16, 1924

\* All Browne &amp; Sharpe gauge, except where otherwise noted.

† Birmingham wire gauge.

DESCRIPTION  
ST. LAWRENCE SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt- age
<b>Lines terminating</b>								
L. 72 x 22	St. L. .....	Pole No. 564.....	Eugene Phillips Co. . .	40	175	2.60	67	44,000
11 x 1a	.....	Mille Roche. ....	Cornwall trans. sta. ....	.....	.....	.....	.....	.....
53 x 2	.....	Morrisburg jct. No. 1.	Prescott dist. sta. ....	40	120	22.96	1084	44,000
7 x 4	2	Williamsburg dist. sta..	Winchester dist. sta...	40	120	9.78	449	26,400
4 x 5	3	Winchester dist. sta...	Chesterville dist. sta..	40	120	6.71	303	26,400
68 x 6	12	Pole No. 85.....	Toronto Paper Co. dist sta.	40	176	0.11	5	44,000
54 x 7	2	Pole No. 94.....	Williamsburg dist. sta.	40	120	4.61	204	26,400
66 x 13	.....	Pole No. 143.....	Martintown dist. sta..	45	325	5.55	88	44,000
13 x 14	.....	Martintown dist. sta..	Apple Hill dist. sta...	45	325	5.36	91	44,000
67 x 15	.....	Pole No. 349.....	Alexandria dist. sta...	45	325	8.91	161	44,000
68 x 18	.....	Pole No. 85.....	Cornwall P. & P. Co..	50	132	1.66	73	44,000
72 x 3	.....	Pole No. 564.....	Brockville dist. sta...	40	120	1.58	75	44,000
54 x 21	.....	Winchester jct. No. 94.	Morrisburg dist. sta...	40	120	1.19	54	26,400

**Lines terminating**

1 x 51	8	Cornwall trans. sta....	Pole No. 391.....	40	176	12.63	391	44,000
51 x 54	8	Pole No. 391.....	Pole No. 94.....	40	176	12.76	340	44,000
1 x 66	.....	Cornwall trans. sta....	Pole No. 143.....	45	325	8.12	143	44,000
14 x 67	.....	Apple Hill dist. sta....	Pole No. 349.....	45	325	1.62	27	44,000
1 x 68	12	Cornwall trans. sta....	Pole No. 85.....	40	176	2.46	85	44,000
21 x 53	.....	Morrisburg dist. sta....	Pole No. 1.....	40	120	0.77	40	44,000
2 x 72	.....	Prescott dist. sta....	Pole No. 564.....	40	120	12.50	555	44,000

<sup>a</sup> L11 x 1, telephone line only.

Power supplied from Cedar Rapids Power Co. lines at 110,000 volts.



## OF LINES

## SYMBOL "L"

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at stations							
1	4/0 a.c.s-r.	3x12galv. steel	None	{ C.P. 1159 C.P. 1725	12	April 21, 1922	Sept. 30, 1922
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	{ C.P. 1159 O.B. 25529	91	Oct. 29, 1912	Oct. 23, 1913
1	5/16" galv. steel	10 c-c. steel	1/4" galv. steel	Thom 2111	25	June 4, 1912	Dec. 18, 1913
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	Thom 2111	151	Sept. 6, 1913	Feb. 7, 1914
1	336,000 c.m. a.c.s-r.	9 galv. iron †	9/32" galv. steel	{ C.P. 1159 J.D. 2 units	.....	Sept. 24, 1918	June 19, 1919
1	5/16" galv. steel	10 c-c. steel	1/4" galv. steel	{ J.D. 3 units Thom 2111	.....	June 4, 1912	Dec. 18, 1913
1	2 a.c.s-r.	3x12galv. steel	9/32" galv. steel	{ J.D. 2 units J.D. 3 units	.....	June 4, 1920	Jan. 18, 1921
1	2 a.c.s-r.	3x12galv. steel	9/32" galv. steel	{ J.D. 2 units J.D. 3 units	10	July 15, 1920	Jan. 18, 1921
1	2 a.c.s-r.	3x12galv. steel	9/32" galv. steel	{ J.D. 2 units J.D. 3 units	7	Aug. 12, 1920	Jan. 18, 1921
1	6/0 a.c.s-r.	6 a.c.s-r.	9/32" galv. steel	{ C.P. 1159 J.D. 2 units	.....	Jan. 13, 1921	May 26, 1921
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	{ J.D. 3 units C.P. 1159	74	Oct. 16, 1914	April 4, 1915
2	5/16" galv. steel	2-cirs.	1/4" galv. steel	{ O.B. 25529 reinsul. 1922	.....	June 4, 1912	Dec. 18, 1913
	1-cir.	10 c-c. steel		Thom 2111			
	3/0 alum. 1-cir.						

## at junctions

1	3/0 aluminum	9 galv. iron †	9/32" galv. steel	{ C.P. 1159 J.D. 2 units	.....	May 7, 1918	April 30, 1919
1	3/0 aluminum	9 galv. iron †	9/32" galv. steel	{ J.D. 3 units C.P. 1159	.....	May 7, 1918	April 30, 1919
1	2 a.c.s-r.	3x12galv. steel	9/32" galv. steel	{ J.D. 2 units J.D. 3 units	.....	June 2, 1920	Jan. 18, 1921
1	2 a.c.s-r.	3x12galv. steel	9/32" galv. steel	{ J.D. 2 units J.D. 3 units	.....	Aug. 11, 1920	Jan. 18, 1921
1	336,000 c.m. a.c.s-r.	9 galv. iron †	9/32" galv. steel	{ C.P. 1159 J.D. 2 units	.....	Sept. 24, 1918	June 19, 1919
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	{ J.D. 3 units C.P. 1159	.....	Aug. 21, 1922	Aug. 21, 1922
1	3/0 aluminum	10 c-c. steel	1/4" galv. steel	{ O.B. 25529 reinsul. 1922	6	Oct. 16, 1914	April 4, 1915
				{ C.P. 1159 reinsul. 1922			

\* All Browne &amp; Sharpe gauge, except where otherwise noted.

† Birmingham wire gauge.

**DESCRIPTION**  
**RIDEAU SYSTEM—**

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
H. 8 x 2	R.L. 1	Balderson dist. sta.....	Perth dist. sta.....	35	132	4.95	201	26,400
55 x 3	2	Pole No. 1328.....	Smiths Falls dist. sta..	35	132	5.64	233	26,400
55 x 5	4	Pole No. 1328.....	Carleton Place dist. sta.	30	150	14.24	523	26,400
3 x 7	3	Smiths Falls dist. sta...	Merrickville gen. sta..	35	132	12.30	517	26,400
1 x 8	1	High Falls gen. sta....	Balderson dist. sta....	35	132	16.08	666	26,400
2 x 55	2	Perth dist. sta.....	Pole No. 1328.....	35	132	11.31	459	26,400
7 x 10	.....	Merrickville gen. sta...	Grenville Crushed Rock Co.....	35	250	5.94	127	26,400
10 x 9	.....	Grenville Crushed Rock Co.....	Kemptville dist. sta...	35	250	6.19	130	26,400

**THUNDER BAY SYSTEM—**

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Voltage
P. 50 x 51	.....	Sprucewood jct.....	Everard switch.....	45	330	1.90	30	110,000
51 x 55	.....	Everard.....	Dorion switch.....	45	330	10.93	174	110,000
55 x 52	.....	Dorion switch.....	Pearl switch.....	45	330	11.00	181	110,000
52 x 53	.....	Pearl.....	Sibley switch.....	45	330	12.90	209	110,000
53 x 54	.....	Sibley.....	Bare Point jct.....	45	330	14.02	227	110,000
54 x 2(T)	.....	Bare Point jct.....	Pt. Arthur trans. sta.	45	330	0.35	6	110,000
1 x 56	.....	Nipigon gen. sta.....	Nipigon jct.....	Right-of-way cleared.				
56 x 50c	.....	Nipigon jct.....	Sprucewood jct.....	45	330	6.43	106	110,000
56 x 6	.....	Nipigon jct.....	Nipigon Fibre & P. Co.	45	330	0.25	5	110,000
2 x 59a	.....	Bare Point trans. sta.	Intercities.....	50	630	8.49	67	110,000
59 x 8	.....	Intercities.....	G. Lakes P. & P. Co.	50	325	5.72	112	110,000
57 x 56	.....	Reserve jct. 1.....	Nip. Fibre & P. Co. jct. 32.	45	500	2.93	32	110,000
1 x 2b	.....	Nipigon gen. sta.....	Bare Point trans. sta..	.....	830	62.10	405	110,000
1 x 57	.....	Nipigon gen. sta.....	Reserve jct.....	45	330	11.09	181	110,000
57 x 50	.....	Reserve jct.....	Sprucewood jct.....	45	330	6.15	103	110,000

NOTE.—For operating purposes, section P50 x P6 have been grouped and are known as P50 x 6.

For operating purposes, section P50 x P2 (temporary station) have been grouped and a P2 x 59—A.A. type towers for 5.31 miles, Blaw Knox type towers for 2.46 miles and wood

Blaw Knox type towers, Nos. 22 to 67 "A.A." type towers.

b P1 x 2—Towers.

c P56 x 50—Out of service, connected to new tower line.

## OF LINES

## SYMBOL "H"

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
1	125,000 c.m. a.c.s-r.	9 galv. iron	9/32" galv. steel	C.P. 889	2	Aug. 22, 1918	June 23, 1919
1	125,000 c.m. a.c.s-r.	9 galv. iron	9/32" galv. steel	C.P. 889	21	April 12, 1918	Feb. 18, 1919
1	125,000 c.m. a.c.s-r.	9 galv. iron	9/32" galv. steel	{O.B. 11622 C.P. 889	.....	May 7, 1919	May 31, 1920
1	5/16" galv. steel	9 galv. iron	1/4" galv. steel	C.P. 889	54	Nov. 27, 1917	Sept. 5, 1918
1	125,000 c.m. a.c.s-r.	9 galv. iron	9/32" galv. steel	C.P. 889	.....	Aug. 22, 1918	June 23, 1919
1	125,000 c.m. a.c.s-r.	9 galv. iron	9/32" galv. steel	C.P. 889	75	April 12, 1918	Feb. 18, 1919
1	3x12 galv. steel	3x12 galv. steel	None	O.B. 9410	.....	July 26, 1921	Nov. 28, 1921
1	3x12 galv. steel	3x12 galv. steel	None	O.B. 9410	.....	July 26, 1921	Nov. 28, 1921

## SYMBOL "P"

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
1	4/0 a.c.s-r.	3x13 galv. steel	9/32" galv. steel	C.P. 2133	.....	Dec. 17, 1919	Dec. 20, 1920
1	4/0 a.c.s-r.	3x13 galv. steel	9/32" galv. steel	O.B. 12464	.....	Mar. 1, 1919	Dec. 20, 1920
1	4/0 a.c.s-r.	3x13 galv. steel	9/32" galv. steel	O.B. 12464	.....	Mar. 1, 1919	Dec. 20, 1920
1	4/0 a.c.s-r.	3x13 galv. steel	9/32" galv. steel	C.P. 2133	.....	Oct. 27, 1919	Dec. 20, 1920
1	4/0 a.c.s-r.	3x13 galv. steel	9/32" galv. steel	C.P. 2133	.....	May 3, 1919	Dec. 20, 1920
1	4/0 a.c.s-r.	3x13 galv. steel	9/32" galv. steel	C.P. 2133	.....	Nov. 4, 1920	Dec. 20, 1920
1	4/0 a.c.s-r.	3x12 galv. steel	9/32" galv. steel	C.P. 2133	.....	Nov. 20, 1920	April 29, 1921
1	4/0 a.c.s-r.	3x12 galv. steel	9/32" galv. steel	C.P. 2133	.....	Mar. 9, 1921	April 29, 1921
1	4/0 copper	None	None	C.P. 2133	.....	Jan. 7, 1924	May 1, 1924
1	2/0 copper	3x13 steel	None	C.P. 2133	.....	Jan. 15, 1924	May 1, 1924
1	4/0 a.c.s-r.	3x13 steel	None	C.P. 2133	.....	Dec. 1, 1923	Sept. 7, 1924
1	4/0 copper	None	None	C.P. 2133	.....	Jan., 1924	Sept. 30, 1924
1	4/0 a.c.s-r.	3x13 steel	9/32" galv. steel	C.P. 2133	.....	Dec. 17, 1919	Dec. 20, 1920
1	4/0 a.c.s-r.	3x13 steel	9/32" galv. steel	C.P. 2133	.....	Dec. 17, 1919	Dec. 20, 1920

are known as P50 x 2(T).

poles from Oliver Road to Central Ave, 0.72 miles. No. 1=1920 type tower, Nos. 2 to 21 inclusive.

\* All Browne & Sharpe gauge, except where otherwise noted.

† Birmingham wire gauge.



DESCRIPTION

CENTRAL ONTARIO AND TRENT SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt- age
Lines terminating								
C. 53 x 3	R	Wooler sw. pole No. 770	Sydney terminal sta...	40	176	6.47	207	44,000
96 x 6	H	Picton jct. ....	Brighton trans. sta....	35	132	7.30	306	44,000
6 x 7	H	Brighton trans. sta....	Colborne trans. sta....	35	132	10.10	366	44,000
7 x 13	H	Colborne trans. sta....	Cobourg trans. sta....	35	132	13.80	645	44,000
13 x 16	H	Cobourg trans. sta....	Port Hope trans. sta..	35	132	6.70	248	44,000
66 x 22	C	Port Hope sw. sta....	Newcastle trans. sta....	35	132	16.63	711	44,000
22 x 23	C	Newcastle trans. sta....	Jct. pole No. 929....	35	132	5.18	220	44,000
23 x 24	C	Jct. pole No. 929....	Bowmanville trans.sta..	40	150	1.02	35	44,000
75 x 25	C	Jct. pole No. 929....	Oshawa trans. sta....	35	132	9.79	403	44,000
	Millb'k	Millbrook jct. ....	Millbrook trans. sta....	35	132	1.70	71	44,000
76 x 29	L	Omeme sw. tower....	Lindsay trans. sta....	35	132	13.20	559	44,000
30 x 29	100 & 101	Fenelon Falls gen. sta..	Lindsay trans. sta....	30	100	13.00	725	11,000
14 x 31	Y	Heely Falls gen. sta....	Norwood trans. sta....	40	300	10.44	174	44,000
47 x 32	.....	Marmora trans. sta....	Deloro trans. sta....	35	132	4.10	182	44,000
83 x 33	Madoc Tap	Madoc jct. ....	Madoc trans. sta....	35	132	9.60	437	44,000
83 x 34	A	Madoc jct. ....	Sulphide trans sta....	35	132	20.30	862	44,000
85 x 35	Stirling Tap	Stirling jct. ....	Stirling trans. sta....	35	132	0.20	8	44,000
88 x 38	B'ville Tap	Belleville sw. sta....	Belleville trans. sta....	35	132	1.30	41	44,000
90 x 39	B.C.Co. Tap	Belleville Chem. Co. jct.	Belleville Cement Co. sta.	35	132	1.00	55	44,000
90 x 40	Quarry Tap	Belleville Cement Co. jct.	Pt. Anne Quarries sta.	35	132	0.90	49	44,000
91 x 41	E & F	Lehigh jct. ....	Lehigh Cem. Co. trans. sta. ....	35	132	0.60	33	44,000
92 x 42	J	Deseronto jct. ....	Deseronto trans. sta..	35	132	2.80	115	44,000
92 x 43	J	Deseronto jct. ....	Napanee trans. sta....	35	132	6.00	246	44,000
43 x 44	J	Napanee trans. sta....	Kingston trans. sta....	40	175	26.50	863	44,000
96 x 45	Picton Tap	Picton jct. ....	Wellington trans. sta..	40	176	17.45	511	44,000
45 x 46	Picton Tap	Wellington trans. sta..	Picton trans. sta....	40	176	10.80	331	44,000
82 x 47	Deloro Tap	Deloro jct. ....	Marmora trans. sta....	35	132	10.40	464	44,000
8 x 9	.....	Dam No. 8. ....	Dam No. 9. ....	40	350	2.00	33	44,000
9 x 10	.....	Dam No. 9. ....	Dam No. 10. ....	40	350	1.50	26	44,000

## OF LINES

## SYMBOL "C"

No. of circuits	Size and material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at transformers or generating stations							
2	2/0 copper	10 c-c. steel	1/4" galv. steel	{O.B. 25529 O.B. 11623	.....	.....	1918
1	4/0 aluminium	9 galv. iron†	5/16" galv. steel	{C.P. 1159 O.B. 11623	.....	.....	1911
1	4/0 aluminum	9 galv. iron†	5/16" galv. steel	C.P. 1159	.....	.....	1911
1	4/0 aluminum	9 galv. iron†	5/16" galv. steel	C.P. 1159	.....	.....	1911
1	4/0 aluminum	9 galv. iron†	5/16" galv. steel	C.P. 1159	9	.....	1911
1	4/0 a.c.s-r.	9 galv. iron†	5/16" galv. steel	C.P. 1159	.....	.....	1911
2	4/0 a.c.s-r.	9 galv. iron†	5/16" galv. steel	C.P. 1159	.....	.....	1911
1	4/0 aluminum	9 galv. iron†	5/16" galv. steel	C.P. 1159	.....	.....	1911
1	6 galv. iron†	9 galv. iron†	5/16" galv. steel	O.B. 10638	.....	.....	1912
1	2/0 aluminum	9 galv. iron†	5/16" galv. steel	C.P. 1159	12	.....	1912
2	4 copper	9 galv. iron†	barbed wire	.....	.....	.....	1899
1	4/0 a.c.s-r.	3x13 galv. stl.	9/32" galv. steel	C.P. 1725	.....	{2-susp. 3-strain.	1920
1	2 aluminum	9 galv. iron†	5/16" galv. steel	C.P. 1159	.....	.....	1909
1	2 aluminum	9 galv. iron†	5/16" galv. steel	C.P. 1159	45	.....	1910
1	2 aluminum	9 galv. iron†	5/16" galv. steel	O.B. 25529	.....	.....	1910
1	2 aluminum	9 galv. iron†	5/16" galv. steel	{362 Locke Retested	.....	.....	1910
1	{4/0 aluminum 2 aluminum	9 galv. iron†	5/16" galv. steel	C.P. 1159	.....	.....	1910
1	2 aluminum	9 galv. iron†	5/16" galv. steel	C.P. 1159	.....	.....	1911
1	2 aluminum	9 galv. iron†	5/16" galv. steel	C.P. 1159	.....	.....	1911
2	2 a.c.s-r.	9 galv. iron†	5/16" galv. steel	C.P. 1159	.....	.....	.....
1	{1/4" x 5/16" galv. steel	9 galv. iron†	5/16" galv. steel	C.P. 1159	.....	.....	1912
1	4/0 aluminum	9 galv. iron†	5/16" galv. steel	C.P. 1159	.....	.....	1912
1	1/0 copper	9 galv. iron†	1/4" galv. steel	C.P. 1725	191	.....	1917
1	9/32" galv. steel	9 galv. iron†	9/32" galv. steel	C.P. 1159	.....	.....	1919
1	9/32" galv. steel	9 galv. iron†	9/32" galv. steel	C.P. 1159	108	.....	1919
1	2 aluminum	9 galv. iron†	5/16" galv. steel	C.P. 1159	.....	.....	1909
1	4/0 a.c.s-r.	None	None	C.P. 2133	.....	.....	1924
1	4/0 a.c.s-r.	None	None	C.P. 2133	.....	.....	1924

\* All Browne &amp; Sharpe gauge, except where otherwise noted.

† Birmingham wire gauge.

DESCRIPTION

CENTRAL ONTARIO AND TRENT SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt- age
<b>Lines terminating</b>								
C. 86 x 52	G	Pulp Mill jct.....	G.B. jct.....	35	132	14.20	641	44,000
14 x 61	O	Heely Falls.....	Campbellford jct.....	35	132	3.60	169	44,000
16 x 66	H	Port Hope.....	Port Hope sw. sta....	35	132	0.20	7	44,000
66 x 75	K	Port Hope sw. sta....	Millbrook jct.....	35	132	15.50	663	44,000
79 x 76	L	Lindsay jct.....	Omeme sw. tower....	35	132	6.00	253	44,000
75 x 79	K	Millbrook jct.....	Lindsay jct.....	35	132	10.70	447	44,000
11 x 82	A	Seymour gen. sta.....	Deloro sw. sta.....	35	132	5.50	244	44,000
84 x 83	A	Harold jct.....	Madoc jct.....	35	132	5.10	212	44,000
82 x 84	A	Deloro jct.....	Harold jct.....	35	132	4.50	182	44,000
85 x 84	Q	Stirling jct.....	Harold jct.....	35	132	8.30	308	44,000
52 x 85	Q	G. B. jct.....	Stirling jct.....	35	132	1.10	46	44,000
11 x 86	G	Seymour gen. sta.....	Pulp Mill jct.....	35	132	1.20	57	44,000
3 x 88	M	Sidney terminal sta....	Belleville sw. sta....	35	132	12.70	516	44,000
52 x 88	B	G.B. jct.....	Belleville sw. sta....	35	132	13.00	568	44,000
88 x 90	E & F	Belleville sw. sta.....	Belleville Cem. Co. jct.	35	132	4.80	246	44,000
90 x 91	E & F	Belleville Cem. Co. jct..	Lehigh jct.....	35	132	1.00	51	44,000
91 x 92	J	Lehigh jct.....	Deseronto jct.....	35	132	11.20	552	44,000
3 x 96	H	Sidney terminal sta....	Picton jct.....	35	132	4.70	203	44,000
10 x 60	.....	Ranney Falls gen. sta..	Pole No. 249.....	40	125	0.38	15	44,000
64 x 49	.....	Jct. pole No. 358.....	Warkworth sta.....	40	176	2.56	78	44,000
49 x 53	.....	Warkworth sta.....	Wooler pole No. 770..	40	176	10.62	334	44,000
14 x 60	.....	Heely Falls gen. sta....	Pole No. 249.....	40	176	7.48	249	44,000
8 x 64	.....	Dam No. 8, gen. sta.C8	Pole No. 358.....	40	125	0.70	25	44,000
31 x 69	.....	Norwood trans. sta....	Auburn switch sta....	40	300	17.89	301	44,000
79 x 69	.....	Lindsay jct.....	Auburn switch sta....	35	132	8.70	384	44,000
9 x 59	.....	Dam No. 9.....	Pole No. 289.....	40	425	0.74	12	44,000
60 x 59	.....	Pole No. 249.....	Pole No. 289.....	40	176	1.26	40	44,000
59 x 64	.....	Pole No. 289.....	Pole No. 358.....	40	176	2.14	69	44,000
10 x 62	.....	Dam No. 10.....	Pole No. C62.....	40	350	0.50	8	44,000
62 x 86	.....	Jct. pole No. C62.....	Jct. No. C86.....	35	132	1.00	37	44,000
<b>Lines terminating</b>								
69 x 2001	.....	Auburn switch sta.....	Peterborough.....	40	175	2.08	76	44,000
62 x 36	.....	Jct. No. C62.....	Campbellford Pulp Mills trans. sta.....	35	132	0.40	19	44,000



## OF LINES

## SYMBOL "C"—Continued

No. of circuits	Size of material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began	Date placed in operation
at switching stations or junctions							
1	4/0 aluminum	9 galv. iron †	5/16" galv. steel	362 Locke Retested	.....	.....	1911
1	4/0 aluminum	9 galv. iron †	5/16" galv. steel	362 Locke Retested	.....	.....	1912
1	4/0 aluminum	9 galv. iron †	5/16" galv. steel	C.P. 1159	.....	.....	1911
1	4/0 aluminum	9 galv. iron †	5/16" galv. steel	Pole 1-600 362 Locke	.....	.....	1912
1	2/0 aluminum	9 galv. iron †	5/16" galv. steel	C.P. 1159	.....	.....	.....
1	4/0 aluminum	9 galv. iron †	5/16" galv. steel	P. 600-630 362 Locke	.....	.....	1912
1	2 aluminum	9 galv. iron †	5/16" galv. steel	362 Locke Retested	.....	.....	1909
1	2 aluminum	9 galv. iron †	5/16" galv. steel	O.B. 25529 C.P. 1159	.....	.....	1910
1	2 aluminum	9 galv. iron †	5/16" galv. steel	362 Locke Retested	.....	.....	1909
1	2 aluminum	9 galv. iron †	5/16" galv. steel	362 Locke Retested	.....	.....	1910
1	2 aluminum	9 galv. iron †	5/16" galv. steel	362 Locke Retested	.....	.....	1910
1	4/0 aluminum	9 galv. iron †	5/16" galv. steel	362 Locke Retested	.....	.....	1911
1	4/0 aluminum	9 galv. iron †	5/16" galv. steel	C.P. 1159	.....	.....	1911
1	4/0 aluminum	9 galv. iron †	5/16" galv. steel	C.P. 1159	.....	.....	1910
2	4/0 aluminum	9 galv. iron †	5/16" galv. steel	O.B. 11623 C.P. 1159	9 .....	.....	1911
2	4/0 aluminum	9 galv. iron †	5/16" galv. steel	O.B. 12855 C.P. 1159	.....	.....	1911
1	4/0 aluminum	9 galv. iron †	5/16" galv. steel	C.P. 1159	.....	.....	1912
1	4/0 aluminum	9 galv. iron †	5/16" galv. steel	O.B. 11623	.....	.....	1911
2	4/0 a.c.s-r.	10 c-c. steel	None	C.P. 1159 C.P. 1725	.....	.....	Aug. 12, 1922
2	2/0 copper	10 c-c. steel	1/4" galv. steel	O.B. 25529	.....	.....	1918
2	2/0 copper	10 c-c. steel	1/4" galv. steel	O.B. 11623 O.B. 11623 O.B. 25529	.....	.....	1918
1	2/0 copper	10 c-c. steel	1/4" galv. steel	O.B. 11623	.....	.....	1918
1	4/0 a.c.s-r.	10 c-c. steel	None	C.P. 1159	.....	.....	1923
1	4/0 a.c.s-r.	3x13 galv. stl.	9/32" galv. steel	C.P. 1925	.....	2-susp. 3-strain.	1920
1	4/0 aluminum	9 galv. iron †	5/16" galv. steel	C.P. 1159	.....	.....	1912
1	3/0 a.c.s-r.	1/4" galv. steel	None	O.B. 12464	.....	.....	1923
1	2/0 copper	10 c-c. steel	1/4" galv. steel	O.B. 11623	.....	.....	1918
1	2/0 copper	10 c-c. steel	1/4" galv. steel	O.B. 11623	.....	.....	1918
1	4/0 a.c.s-r.	None	None	C.P. 2133	.....	.....	1924
1	4/0 a.c.s-r.	9 galv. iron †	5/16" galv. steel	362 Locke Retested	.....	restrung 1924	1911

## at customers or junctions

1	4/0 a.c.s-r.	6 a.c.s-r.	None	O.B. 12464	.....	Oct. 15, 1923	Mar. 20, 1924
1	2 aluminum	9 galv. iron †	5/16" galv. steel	362 Locke Retested	.....	.....	1911

\* All Browne &amp; Sharpe gauge, except where otherwise noted.

† Birmingham wire gauge.

DESCRIPTION  
NIPISSING SYSTEM—

New section number	Old section number	From	To	Avg. height of poles in feet	Avg. span in feet	Miles	No. of poles	Volt- age
Z.								
1 x 52	.....	Nipissing gen. sta.....	Bingham chute jct....	34	126	3.00	137	22,000
52 x 3	.....	Bingham chute jct....	Callendar dist. sta....	34	126	7.00	372	22,000
3 x 4	.....	Callendar dist. sta....	North Bay dist. sta...	35	126	8.20	343	22,000
6 x 52	.....	Bingham chute gen. sta.	Jct. "Pole" 207 .....	{32 35}	{126 132}	4.55	207	22,000

## OF LINES

## SYMBOL "Z"

No. of circuits	Size of material of power cable*	Size and material of telephone wire*	Size and material of ground cable	Make and style of power insulators	No. of poles with attachments	Date work began		Date placed in operation	
1	2 aluminum	9 galv. iron †	1/4" galv. steel	{ similar to O.B. 9410	.....	Aug.,	1909	Mar.,	1910
1	2 aluminum	9 galv. iron †	1/4" galv. steel	{ similar to O.B. 9410	.....	Aug.,	1909	Mar.,	1910
1	2 aluminum	9 galv. iron †	1/4" galv. steel	{ similar to O.B. 9410	.....	Aug.,	1909	Mar.,	1910
1	{ 2 aluminum 1/0 a.c.s-r.	9 galv. iron †	1/4" galv. steel	{ O.B. 9410 C.P. 889	.....	May,	1923	Dec.,	1923

\* All Browne &amp; Sharpe gauge, except where otherwise noted.

† Birmingham wire gauge.





## **APPENDIX IV**

### **DISTRIBUTION LINES AND SYSTEMS**

**Summaries of Data respecting Rural Distribution Systems,  
Distribution Feeders, Metering Stations, and Municipal  
Distribution Systems constructed by the Hydro-Electric  
Power Commission**

**Also**

**Detailed Descriptions of the individual Transmission Lines  
of less than 5,000 volts (Distribution Feeders) operated  
by the Hydro-Electric Power Commission as existing on  
October 31, 1924**

## DISTRIBUTION LINES AND SYSTEMS

Below is shown in tabular form the work carried on under the supervision of the Distribution section of the Electrical Engineering and Laboratory department during the year ended October 31, 1924.

This work includes the construction of rural distribution systems, the installation of a number of 4,000- and 2,300-volt feeders to supply urban municipalities and some special consumers, and the construction of metering equipments. Distribution systems were constructed by the Commission for certain municipalities, at the request and at the expense of the municipalities concerned.

### RURAL DISTRIBUTION SYSTEMS CONSTRUCTED

Rural power district	Property number	At October 31, 1923		At October 31, 1924	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
NIAGARA SYSTEM					
Niagara.....	N1D1	3.50	13	20.84	57
Homer.....	N1D2	2.57	40	3.40	75
Jordan.....	N1D3	16.12	63	16.57	71
Beamsville.....	N1D4	36.35	255	41.68	325
Welland.....	N1D5	0.65	49	20.20	1205
Stamford.....	N1D6	6.88	159	7.26	161
Chippawa.....	N1D7	7.55	79	7.55	86
Dundas.....	N2D1	4.30	25	4.65	142
Lynden.....	N2D2	10.50	35	20.39	90
Waterdown.....	N2D3	1.89	33	1.89	37
Barton.....	N2D7			3.85	35
Markham.....	N3D1	7.75	114	7.75	129
Scarboro.....	N3D2	0.65	1	4.13	35
Bond Lake.....	N3D3			11.50	232
Newmarket.....	N3D4				8
Keswick.....	N3D5			9.90	327
Mountjoy.....	N3D6				11
Lansing.....	N3D7			14.90	233
Dorchester.....	N4D1	32.76	226	34.20	240
London.....	N4D2	12.65	66	49.52	1174
Delaware.....	N4D3	21.28	139	21.48	152
Exeter.....	N4D6	12.25	131	12.25	135
Georgetown.....	N5D2			3.40	31
Preston.....	N6D1	22.48	203	31.96	254
Galt.....	N6D2	3.25	26	3.25	27
Baden.....	N7D1	5.50	36	7.12	37
St. Jacobs.....	N7D2	2.70	51	22.45	178
Tavistock.....	N8D1	3.70	49	4.30	51
Walton.....	N8D3			0.34	14
Stratford.....	N8D4			5.00	120
Woodstock.....	N10D2	57.63	249	57.63	263
Ingersoll.....	N10D3	0.12	1	0.12	1
Tillsonburg.....	N10D4	1.50		6.50	52
St. Thomas.....	N11D1	22.30	29	42.91	402
Aylmer.....	N11D2	6.00	1	9.20	34
Brant.....	N12D1	13.90	94	15.03	105
Waterford.....	N12D3	0.19	1	4.69	15
Drumbo.....	N12D5	7.50	77	7.50	84
Simcoe.....	N12D6	0.23	11	0.23	12
Streetsville.....	N13D1	1.41	4	1.41	5



## RURAL DISTRIBUTION SYSTEMS CONSTRUCTED—Continued

Rural power district	Property number	At October 31, 1923		At October 31, 1924	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service

## NIAGARA SYSTEM—Continued

Brampton.....	N13D2	1.13	4	1.13	4
Chatham.....	N14D1	27.38	136	28.88	148
Ridgetown.....	N14D2	25.20	135	25.20	154
Blenheim.....	N14D3	.....	.....	9.83	54
Sarnia.....	N14D4	9.75	129	12.50	208
Petrolia.....	N14D5	1.33	10	1.53	11
Bothwell.....	N14D10	.....	.....	0.50	12
Wallaceburg.....	N14D13	23.10	62	32.10	244
Tilbury.....	N14D14	.....	.....	0.03	5
Sandwich.....	N15D1	6.14	68	29.31	671
Belle River.....	N15D2	12.50	114	12.50	141
Amherstburg.....	N15D3	.....	.....	4.66	100
Harrow.....	N15D4	.....	.....	0.40	4
Kingsville.....	N15D5	4.00	86	10.50	267
Leamington.....	N15D6	.....	.....	15.50	193
Woodbridge.....	N16D1	1.86	18	2.75	50
Bolton.....	N16D2	.....	.....	1.15	3
Saltfleet.....	N17D1	59.90	624	63.88	715

(a) Old property number J 2 D 1

(c) Old property number J 4 D 1

(b) Old property number J 3 D 1

(d) Old property number J 5 D 1

## GEORGIAN BAY SYSTEM

Eugenia Division					
Flesherton.....	E1D1	1.76	19	1.76	18
Ripley.....	E24D2	.....	1	.....	1
Walkerton Quarries.....	E26D1	1.60	4	1.60	4
Wasdells Division					
Cannington No. 1.....	W3D1	1.25	3	3.15	18
Cannington No. 2.....	W3D2	.....	.....	3.75	18
Port Perry.....	W7D2	.....	13	.....	14
Mariposa.....	W9D1	18.50	104	18.50	109
Severn Division					
Barrie.....	S4D1	5.20	20	5.20	31
Nottawasaga.....	S5D1	4.00	63	7.25	69
Elmvale.....	S7D1	.....	.....	.....	19
Stayner.....	S10D1	11.00	105	11.00	134

## ST. LAWRENCE SYSTEM

Prescott.....	L2D1	13.55	66	13.55	71
Brockville.....	L3D1	8.26	27	8.66	30
Chesterville.....	L5D1	3.25	13	3.25	8
Williamsburg.....	L7D1	.....	.....	0.25	1
Martintown.....	L13D1	2.90	47	2.90	48
Apple Hill.....	L14D1	.....	.....	.....	1

## RURAL DISTRIBUTION SYSTEMS CONSTRUCTED—Conciuded

System	Property number	At October 31, 1923		At October 31, 1924	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service

## CENTRAL ONTARIO SYSTEM

Bowmanville.....	C23D1	.....	.....	0.50	4
Trenton.....	C37D1	.....	.....	0.55	1
Kingston.....	C44D1	10.80	54	12.92	73

## OTTAWA SYSTEM

Nepean.....	T1D1	25.00	109	25.00	111
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## SUMMARY

Niagara system.....	494.35	3,431	789.30	9,629
Essex County system.....	4.00	86	(31.06)	(564)
Georgian Bay system.....	43.31	332	52.21	435
St. Lawrence system.....	27.96	153	28.61	159
Central Ontario and Trent system.....	10.80	58	13.97	78
Ottawa system.....	25.00	109	25.00	111
Total.....	605.42	4,169	909.09	10,412

NOTE.—For 1924 Essex County system shown separately, but also included in figures for Niagara system.

## DISTRIBUTION FEEDERS CONSTRUCTED

Line and property number	Volt-age	Phase	Date work was commenced	Date work was made alive	Date work was completed	Mile-age
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## NIAGARA SYSTEM

Decewsville to Cayuga. N246x15	4,000	3	Aug. 22, 1924	Oct. 27, 1924	.....	2.6
Hagersville to Jarvis. N239x12	4,000	3	Dec. 13, 1923	Feb. 18, 1924	Feb. 25, 1924	6.0
Bond Lake to Kettleby .....a. N3342x15	4,000	3	April 11, 1924	May 10, 1924	April 22, 1924	5.8
Broughdale to Western University..... N451x22	4,000	3	June 28, 1924	July 8, 1924	July 8, 1924	0.95
Harriston to Clifford. N841x14	4,000	3	Mar. 13, 1924	May 12, 1924	May 15, 1924	6.5
Walton to Brussels. N846x17	4,000	3	May 30, 1924	July 11, 1924	July 14, 1924	4.8
Walton to Blythe. N846x18	4,000	3	June 10, 1924	July 18, 1924	July 21, 1924	7.0
Blenheim to Erieau. N1464x91	2,300	1	May 30, 1924	July 12, 1924	Aug. 22, 1924	2.5
Corunna to Courtright. N1488x28	2,300	1	Oct. 17, 1923	Dec. 15, 1923	Dec. 31, 1923	4.5
Dom. Petroleum Jct. to Dom. Petroleum Co. N1489x29	4,000	3	Dec. 17, 1923	Jan. 22, 1924	Jan. 22, 1924	3.0
Leamington to Wheat- ley..... N1545x49 (Old No. J5x502)	4,000	3	Jan. 15, 1924	Feb. 23, 1924	April 9, 1924	7.0
Total.....						50.65

(a) Neutral added to existing 4,000 volt circuit.

## METERING STATIONS CONSTRUCTED

Station	Pro- perty number	Date work was completed	Measuring power for
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## NIAGARA SYSTEM

Queenston.....	N148	<sup>a</sup> April 30, 1924	Municipality of Queenston.
Cayuga.....	N245	Oct. 27, 1924	Municipality of Cayuga.
Glencoe.....	N1450	Dec. 10, 1923	Municipality of Glencoe.
Courtright.....	N1458	Feb. 14, 1924	Municipality of Courtright.
Dominion Petroleum Company..	N1459	April 24, 1924	Dominion Petroleum Company.
Erieau.....	N1492	Aug. 22, 1924	Municipality of Erieau.
Wheatley..... <sup>b</sup>	N1549	Mar. 10, 1924	Municipality of Wheatley.
Bolton.....	N1635	.....	Municipality of Bolton.
Stamford.....	N1D36	July 15, 1924	Stamford rural power district.
Barton.....	N2D37	May 23, 1924	Barton rural power district.
London.....	N4D32	Jan. 31, 1924	London rural power district.
Tillsonburg.....	N10D34	Dec. 11, 1923	Tillsonburg rural power district.
Brant.....	N12D31	July 31, 1924	Brant rural power district.
Sandwich.....	N15D31	Feb. 25, 1924	Sandwich rural power district.

(a) Changed from single-phase to three-phase.

(b) Old number J 532.

## MUNICIPAL DISTRIBUTION SYSTEMS CONSTRUCTED

Municipality	Date work was commenced	Date work was made alive	Date work was completed
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## NIAGARA SYSTEM

Cayuga.....	Aug. 22, 1924	Oct. 27, 1924	.....
Jarvis.....	Nov. 29, 1923	Feb. 18, 1924	Feb. 25, 1924
Courtright.....	Oct. 31, 1923	Dec. 15, 1923	Jan. 11, 1924
Wheatley.....	Jan. 15, 1924	April 8, 1924	April 9, 1924
Ancaster Township..... <sup>a</sup>	Aug. 1, 1924	Aug. 25, 1924	Aug. 25, 1924
King City..... <sup>b</sup>	Feb. 15, 1924	Feb. 29, 1924	Mar. 1, 1924
Schomberg..... <sup>b</sup>	May 1, 1924	May 10, 1924	May 19, 1924
Campden..... <sup>b</sup>	Nov. 1, 1923	Nov. 2, 1923	Nov. 9, 1923
Belmont..... <sup>b</sup>	Jan. 23, 1924	Feb. 8, 1924	Feb. 9, 1924
Shedden..... <sup>b</sup>	Oct. 24, 1923	Oct. 29, 1923	Dec. 8, 1923
Fingal..... <sup>b</sup>	Oct. 24, 1923	Nov. 23, 1923	Dec. 17, 1923
Corunna..... <sup>b</sup>	Dec. 18, 1923	Dec. 20, 1923	Dec. 20, 1923
Port Lambton..... <sup>b</sup>	Jan. 8, 1924	Jan. 15, 1924	Jan. 15, 1924
Sombra..... <sup>b</sup>	Jan. 8, 1924	Jan. 15, 1924	Jan. 15, 1924
Linwood..... <sup>b</sup>	July 27, 1924	Aug. 1, 1924	Aug. 4, 1924

## SEVERN SYSTEM

Barrie..... <sup>c</sup>	April 24, 1924	.....	.....
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(a) Voltage changed from 2,200 volts to 4,000 volts.

(b) Street lights only.

(c) Engineering only in connection with underground conduit and cable system for street lighting and general power distribution.



**DESCRIPTION**  
**TRANSMISSION LINES OF**  
**(Distribution)**

New section number	Old section number	From	To	Standard pole height in feet	Standard span in feet
<b>NIAGARA SYSTEM—</b>					
N101 x 21		Welland municipal limits	Welland Co. rock crusher	30	160
N114 x 2	N.C.R. 136-1	St. Catharines mun. sta.	Pt. Dalhousie mun. sta.	30	120
N147 x 18		St. David's dist. sta.	Queenston	30	160
N153 x 25		Grimsby dist. sta.	Growers' Cold Storage Co.	30	160

*a* Line carried on A274 x 45 for 63 spans, 12,000 volts, 35-ft. poles, 120-ft. spans.

**NIAGARA SYSTEM—**

N202 x 11	L.T. 209	Dundas mun. sta.	Copetown.	35	132
N237 x 7	L.T. 61	Caledonia dist. sta.	Caledonia.	40	120
N237 x 8	L.T. 47A	Caledonia dist. sta.	Alabastine Company.	40	120
N239 x 12		Hagersville dist. sta.	Jarvis.	30	160
N246 x 15		Decewsville dist. sta.	Cayuga.	35	160

*a* Line carried on poles of N264 x 2 and N264 x 71, 13,200 volts, 35-ft. poles, 132-ft. span.

*b* Line carried on poles of N237 x 70, 13,200 volts, 40-ft. poles, 120-ft. span.

**NIAGARA SYSTEM—**

N301 x 63	N.C.R. 607-1	Toronto mun. limits.	Unionville jct.	30	
N363 x 67	N.C.R. 607-1	Unionville jct.	Markham jct.	30	
N367 x 7	L.T. 215	Markham jct.	Markham.	40	125
N3342 x 13		Bond Lake dist. sta.	Richmond Hill.	45	100
N3342 x 14		Bond Lake dist. sta.	Aurora.	45	100
N3342 x 15		Bond Lake dist. sta.	Kettleby.	35	100
N3346 x 14		Newmarket dist. sta.	Aurora.	45	100
N3346 x 17		Newmarket dist. sta.	Davis Leather Co.	30	100
N3349 x 84		Keswick dist. sta.	Sedore dist. sta.	35	100
N3384 x 20		Sedore dist. sta.	Sutton.	35	100
N3352 x 21		Mount Joy dist. sta.	Stouffville.	30	160

**NIAGARA SYSTEM—**

N432 x 3	L.T. 116	Delaware dist. sta.	Lambeth.	40	120
N432 x 4	L.T. 117	Delaware dist. sta.	Mount Brydges.	40	120
N439 x 8	L.T. 78 & 78A	Dorchester dist. sta.	Thamesford.	35	132
N439 x 20	L.T. 177	Dorchester dist. sta.	Dorchester.	30	160
N439 x 6	L.T. 77	Dorchester dist. sta.	Thorndale.	35	132
N440 x 11	L.T. 134	Lucan dist. sta.	Granton.	30	132
N440 x 12	L.T. 130	Lucan dist. sta.	Ailsa Craig.	30	132
N442 x 18	L.T. 211	Ailsa Craig dist. sta.	Parkhill.	30	160
N443 x 74	L.T. 151	Exeter dist. sta.	Hensall jct.	30	132
N474 x 14	L.T. 151	Hensall jct.	Hensall.	30	132
N474 x 75	L.T. 159	Hensall jct.	Sarepta jct.	30	132
N475 x 15	L.T. 161	Sarepta jct.	Zurich.	30	132
N475 x 16	L.T. 160	Sarepta jct.	Dashwood.	30	132

*a* Line carried on N463 x 32, 0.09 miles, and N4 x 463, 6.50 miles, 13,200 volts, 40-ft. poles, 120-ft. span.

**OF LINES  
LESS THAN 5,000 VOLTS  
Feeders)**

Miles	No. of poles	Voltage and connections	Size and material of power conductors B. and S. gauge	Size and material of neutral conductor	First made alive
<b>NIAGARA DISTRICT—SYMBOL "N1"</b>					
5.51	147 <sup>a</sup>	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	3/13 galv. steel...	Sept. 22, 1921
3.18	140	4,000 3 ph. Y grounded.....	1/0 aluminum....	6 s-r. aluminum..	Nov. 17, 1912
1.00	39 <sup>b</sup>	4,000 3 ph. Y grounded.....	6 h-d. copper....	1/4" galv. steel....	May 1, 1924
0.47	20	4,000 3 ph. Y grounded.....	6 h-d. copper....	6 h-d. copper....	Dec. 24, 1922

<sup>b</sup> Twenty-two of these poles are jointly used by H.E.P.C. and Bell Telephone Company.

**DUNDAS DISTRICT—SYMBOL "N2"**

5.98	5 <sup>a</sup>	4,000 3 ph. Y grounded.....	6 h-d. copper....	1/4" galv. steel....	Oct. 17, 1919
0.30	<sup>b</sup>	2,300 3 ph. Δ.....	4 d-b. w-p. copper	.....	Nov. 30, 1912
0.17	<sup>c</sup>	2,300 3 ph. Δ.....	2/0 copper.....	.....	Sept. 20, 1912
6.00	207	4,000 3 ph. Y grounded.....	4 s-r. aluminum..	1/4" galv. steel....	Feb. 18, 1924
2.10	69	4,000 3 ph. Y grounded.....	6 h-d. copper....	1/4" galv. steel....	Oct. 27, 1924

<sup>c</sup> Line carried on poles of N2 x 237, 13,200 volts, 40-ft. poles, 120-ft. span.

**TORONTO DISTRICT—SYMBOL "N3"**

7.25	.....	4,000 3 ph. Y grounded.....	4 h-d. copper....	6 galv. iron.....	1918
2.50	.....	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	1918
5.58	235	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	April 1, 1920
4.00	<sup>a</sup>	4,000 3 ph. Y grounded.....	1/0 copper.....	4 d-b. w-p. copper	1913
4.50	<sup>a</sup>	4,000 3 ph. Y grounded.....	4 d-b. w-p. copper	4 d-b. w-p. copper	1913
9.50	<sup>a</sup>	4,000 3 ph. Y grounded.....	4/0 copper.....	6 d-b. w-p. copper	1915
4.05	<sup>a</sup>	4,000 3 ph. Y grounded.....	3/0 copper.....	6 d-b. w-p. copper	1915
0.40	28	4,000 3 ph. Y grounded.....	6 d-b. w-p. cop.	4 d-b. w-p. copper	1913
7.86	<sup>a</sup>	4,000 3 ph. Y grounded.....	2 copper.....	6 copper.....	1913
3.55	<sup>a</sup>	4,000 3 ph. Y grounded.....	2/0 copper.....	2/0 copper.....	1923
6.40	239	4,000 3 ph. Y grounded.....	4 h-d. copper....	6 h-d. copper.....	1923
			2 s-r. aluminum..	5/16" str. steel...	Sept. 28, 1923

<sup>a</sup> Line carried on Hydro Radial, 45-ft. poles, 100-ft. spans.

**LONDON DISTRICT—SYMBOL "N4"**

6.59	<sup>a</sup>	4,000 3 ph. Y grounded.....	6 h-d. copper....	1/4" galv. steel....	Mar. 15, 1915
3.99	<sup>b</sup>	4,000 3 ph. Y grounded.....	6 h-d. copper....	1/4" galv. steel....	Mar. 1, 1915
5.88	280	4,000 3 ph. Y grounded.....	2 aluminum.....	1/4" galv. steel....	Jan. 27, 1914
2.81	91	4,000 3 ph. Y grounded.....	4 m.d-h. copper..	1/4" galv. steel....	.....
6.49	311	4,000 3 ph. Y grounded.....	2 aluminum.....	1/4" galv. steel....	Feb. 6, 1914
6.09	247	4,000 3 ph. Y grounded.....	6 m.h-d. copper..	6 galv. iron.....	June 29, 1916
3.57	146	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	Dec. 15, 1915
9.03	325	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	May 14, 1920
1.07	.....	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	.....
5.12	205	4,000 3 ph. Y grounded.....	6 m.h-d. copper..	6 galv. iron.....	Dec. 21, 1916
7.58	265	4,000 3 ph. Y grounded.....	6 m.h-d. copper..	6 galv. iron.....	Dec. 21, 1916
5.17	211	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	Aug. 25, 1917
1.35	56	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	Aug. 25, 1917
			6 m.h-d. copper..	1/4" galv. steel....	Aug. 25, 1916

<sup>b</sup> Line carried on N463 x 32, 0.09 miles, and N462 x 64, 3.90 miles, 13,200 volts, 40-ft. poles, 120-ft. span.

**DESCRIPTION  
TRANSMISSION LINES OF  
(Distribution)**

New section number	Old section number	From	To	Standard pole height in feet	Standard span in feet
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**NIAGARA SYSTEM—**

N604 x 5	.....	Hespeler mun. sta.....	Christie Henderson Co..	30	160
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**NIAGARA SYSTEM—**

N735 x 6	L.T. 44	Baden dist. sta.....	Wellesley.....	30	150
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*a* Line carried on N765 x 66 and N765 x 35, 13,200 volt, for 1.40 miles, 40-ft. poles,

**NIAGARA SYSTEM—**

N834 x 4	L.T. 158	Dublin dist. sta.....	Dublin.....	30	150
N840 x 73	L.T. 178	Palmerston dist. sta.....	Moorefield jct.....	30	150
N873 x 12	L.T. 180	Moorefield jct.....	Moorefield.....	30	150
N873 x 13	L.T. 178	Moorefield jct.....	Drayton.....	30	150
N841 x 14	.....	Harriston dist. sta.....	Clifford.....	30	160
N846 x 17	.....	Walton dist. sta.....	Brussels.....	30	160
N846 x 18	.....	Walton dist. sta.....	Blythe.....	30	160

*a* Line carried on poles of N870 x 72, 13,200 volts, for 0.78 miles, 35-ft. poles, 132-ft. span.

**NIAGARA SYSTEM—**

N1009 x 70	L.T. 200	Tillsonburg.....	Springfield jct.....	30	160
N1070 x 10	L.T. 205	Springfield jct.....	Springfield.....		
N1034 x 13	L.T. 42	Beachville dist. sta.....	Beachville White Lime Co.....		
N1036 x 7	L.T. 11B	Norwich dist. sta.....	Burgessville.....	30	160
N1036 x 8	L.T. 11A	Norwich dist. sta.....	Otterville.....	30	160

*a* Line carried on poles of N1064 x 73, 13,200 volts, for 0.83 miles, 40-ft. poles, 120-ft. span.

**NIAGARA SYSTEM—**

N1135 x 6	L.T. 154	West Lorne dist. sta....	Rodney.....	30	132
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**NIAGARA SYSTEM—**

N12 x 1216	.....	Brant trans. sta.....	Brantford Sand & Gravel Co.....	30	.....
N12 x 1219	L.T. 128	Brant trans. sta.....	St. George.....	30	132
N1206 x 15	.....	Simcoe dist. sta.....	Port Dover.....	35	160
N1240 x 18	.....	Ayr dist. sta.....	H.O. Cereal Co.....	30	160
N1241 x 13	L.T. 91	Drumbo dist. sta.....	Princeton.....	35	132
N1241 x 74	L.T. 92	Drumbo dist. sta.....	Plattsville jct.....	35	132
N1274 x 12	L.T. 92	Plattsville jct.....	Plattsville.....	35	132
N1274 x 14	L.T. 184	Plattsville jct.....	Wolverton Mills.....	35	132

*a* Line carried on 26,400 volt poles of N12 x 1261 and N1261 x 76 for 2.27 miles, 40-ft. poles, 120-ft. span.

*b* Line carried on relay telephone poles N2 x 12 for 4.19 miles, 30-ft. poles, 132-ft. span.

*c* Line carried on 26,400 volt poles of N1275 x 67 and N1267 x 6 for 2.08 miles, 35-ft. poles, 32-ft. span.



## OF LINES

## LESS THAN 5,000 VOLTS—Continued

## Feeders)

Miles	No. of poles	Voltage and connections	Size and material of power conductors B. and S. gauge	Size and material of neutral conductor	First made alive
<b>PRESTON DISTRICT—SYMBOL "N6"</b>					
3.20	111	4,000 3 ph. Y grounded. . . .	4 h-d. copper. . . .	1/4" galv. steel. . . .	Oct. 6, 1923
<b>KITCHENER DISTRICT—SYMBOL "N7"</b>					
7.92	252a	4,000 3 ph. Y grounded. . . .	4 h-d. copper. . . .	6 galv. iron. . . . .	Oct. 23, 1916
120-ft. spans.					
<b>STRATFORD DISTRICT—SYMBOL "N8"</b>					
1.26	47	4,000 3 ph. Y grounded. . . .	6 m.h-d. copper. . .	6 galv. iron. . . . .	Sept. 25, 1917
7.09	237a	4,000 3 ph. Y grounded. . . .	4 m.h-d. copper. . .	6 galv. iron. . . . .	Feb. 22, 1918
1.36	52	4,000 3 ph. Y grounded. . . .	6 h-d. copper. . . .	6 galv. iron. . . . .	Feb. 22, 1918
3.54	123	4,000 3 ph. Y grounded. . . .	4 h-d. copper. . . .	6 galv. iron. . . . .	Feb. 22, 1918
6.80	234	4,000 3 ph. Y grounded. . . .	6 h-d. copper. . . .	1/4" galv. steel. . . .	May 15, 1924
4.80	149	4,000 3 ph. Y grounded. . . .	2 s-r. aluminum. . .	1/4" galv. steel. . . .	July 14, 1924
7.00	232	4,000 3 ph. Y grounded. . . .	2 s-r. aluminum. . .	1/4" galv. steel. . . .	July 21, 1924
<b>WOODSTOCK DISTRICT—SYMBOL "N10"</b>					
12.54	418	2,300 3 ph. $\Delta$ ungrounded. . .	6 h-d. copper. . . .	1/4" galv. steel. . . .	July 1, 1917
1.00	a	2,300 1 ph. ungrounded. . . . .	2 s-r. aluminum. . . . .	.....	.....
3.25	115	2,300 3 ph. $\Delta$ ungrounded. . .	6 h-d. copper. . . .	1/4" galv. steel. . . .	Dec. 7, 1916
4.50	158	2,300 3 ph. $\Delta$ ungrounded. . .	6 h-d. copper. . . .	1/4" galv. steel. . . .	Dec. 7, 1916
<b>ST. THOMAS DISTRICT—SYMBOL "N11"</b>					
4.00	161	4,000 3 ph. Y grounded. . . .	6 m.h-d. copper. . .	6 galv. iron. . . . .	Jan. 15, 1917
<b>BRANT DISTRICT—SYMBOL "N12"</b>					
2.27	3a	4,000 3 ph. Y grounded. . . .	6 h-d. copper. . . .	sky wire used. . . .	Jan. 15, 1922
9.19	199b	4,000 3 ph. Y grounded. . . .	2 s-r. aluminum. . .	1/4" galv. steel. . . .	Aug. 17, 1915
7.00	207c	4,000 3 ph. Y grounded. . . .	2 s-r. aluminum. . .	3/13 galv. steel. . . .	Nov. 8, 1921
1.50	21d	4,000 3 ph. Y grounded. . . .	6 h-d. copper. . . .	6 h-d. copper. . . . .	Mar. 28, 1923
5.65	234	4,000 3 ph. Y grounded. . . .	6 h-d. copper. . . .	1/4" galv. steel. . . .	Dec. 18, 1914
0.49	e	4,000 3 ph. Y grounded. . . .	4 h-d. copper. . . .	1/4" galv. steel. . . .	Dec. 1, 1914
6.84	269	4,000 3 ph. Y grounded. . . .	4 h-d. copper. . . .	1/4" galv. steel. . . .	Dec. 1, 1914
1.81	f	4,000 3 ph. Y grounded. . . .	6 m.h-d. copper. . .	1/4" galv. steel. . . .	Oct. 22, 1918

d Line carried on poles belonging to the Municipality of Ayr for 42 spans.

e Line carried on 26,400 volt poles of N1272 x 41 for 0.49 miles, 35-ft. poles, 132-ft. span.

f Line carried on 26,400 volt poles of N1271 x 72 for 1.81 miles, 35-ft. poles, 132-ft. span.

DESCRIPTION  
TRANSMISSION LINES OF  
(Distribution)

New section number	Old section number	From	To	Standard pole height in feet	Standard span in feet
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NIAGARA SYSTEM—

N1305 x 6	L.T. 79A	Milton Brick Co.....	Streetsville Brick Co....	30	120
N1339 x 67	L.T. 79A	Streetsville dist. sta....	Milton Brick Co. jct....	35	120
N1367 x 5	L.T. 79A	Milton Brick Co. jct....	Milton Brick Co.....	35	120
N1367 x 70	L.T. 181	Milton Brick Co. jct....	W. D. Reid & Sons jct....	25	120
N1370 x 7	L.T. 181	W. D. Reid & Sons jct..	Toronto Milling Co.....	25	120
N1370 x 11	L.T. 214	W. D. Reid & Sons jct..	W. D. Reid & Sons.....	30	132

NIAGARA SYSTEM—

N1419 x 21		Newbury.....	Wardsville.....	30	160
N1419 x 89	L.T. 213	Newbury.....	Dom. Petroleum jct....	30	160
N1489 x 20	L.T. 213	Dom. Petroleum jct....	Glencoe.....	}	
N1489 x 29		Dom. Petroleum jct....	Dom. Petroleum Co....		160
N1432 x 3	L.T. 115	Tilbury dist. sta.....	Comber.....	30	132
N1435 x 6	L.T. 122	Ridgetown dist. sta....	Highgate.....	30	120
N1438 x 19	L.T. 212	Bothwell dist. sta.....	Newbury.....	30	160
N1443 x 14	L.T. 137	Petrolia dist. sta.....	Wyoming.....	25	132
N1445 x 24		Forest dist. sta.....	Thedford.....	30	160
N1446 x 22		Watford dist. sta.....	Alvinston.....	35	160
N1455 x 26		Fletcher dist. sta.....	Merlin.....	30	160
N1464 x 22		Blenheim.....	Erieau.....	30	160
N1417 x 28		Sarnia.....	Courtright.....	30	160

*a* Line carried on 26,000 volt poles of N1466 x 35 for 0.43 miles and relay and telephone N11 x 14 for 5.75 miles.

*b* Line carried on 26,400 volt poles of N1443 x 75 for 4.89 miles and N1475 x 74 for 2.35 miles.

*c* Line carried on 26,400 volt poles of N1476 x 45 for 0.25 miles on 8 pin arms.

NIAGARA SYSTEM—

N1502 x 5		Walkerville limits.....	Riverside.....	35	132
N1505 x 6		Riverside.....	Tecumseth.....		
N1506 x 7		Tecumseth.....	St. Clair Beach.....		
N1538 x 8		Bell River dist. sta....	Belle River.....	30	132
N1545 x 19		Leamington dist. sta..	Wheatley.....	30	160

*a* Line carried on poles belonging to Ford and Riverside for 3.70 miles and H.E.P.C. Railway for 0.75 miles.

NIAGARA SYSTEM—

N1631 x 10		Etobicoke dist. sta.....	Goodyear Tire & Rubber Co.....	40	100
N1631 x 32		Etobicoke dist. sta.....	Mimico.....		
N1631 x 69		Etobicoke dist. sta.....	Etobicoke Twp. jct....		
N1669 x 09		Etobicoke Twp. jct....	Etobicoke Twp.....		
N1669 x 67	L.T. 110A	Etobicoke Twp. jct....	Asylum jct.....	30	125
N1632 x 69	L.T. 110A	Mimico dist. sta.....	Etobicoke Twp. jct....	30	125
N1634 x 5		Woodbridge dist. sta....	Bolton.....	35	132

*a* Line carried on 26,400 volt poles of N1666 x 31 for 1,100 feet and N1632 x 69 for 900 feet.

## OF LINES

## LESS THAN 5,000 VOLTS—Continued

## Feeders)

Miles	No. of poles	Voltage and connections	Size and material of power conductors B. and S. gauge	Size and material of neutral conductor	First made alive
<b>COOKSVILLE DISTRICT—SYMBOL "N13"</b>					
0.25	12	4,000 3 ph. Y grounded.....	6 h-d. copper....	6 galv. iron.....	.....
0.53	22	4,000 3 ph. Y grounded.....	6 h-d. copper....	6 galv. iron.....	.....
0.77	36	4,000 3 ph. Y grounded.....	6 h-d. copper....	6 galv. iron.....	Mar. 9, 1918
0.51	25	4,000 3 ph. Y grounded.....	6 h-d. copper....	6 galv. iron.....	Mar. 9, 1918
0.72	33	4,000 3 ph. Y grounded.....	6 h-d. copper....	6 galv. iron.....	Mar. 9, 1918
0.77	36	4,000 3 ph. Y grounded.....	6 h-d. copper....	1/4" galv. steel....	Jan. 4, 1920

## KENT DISTRICT—SYMBOL "N14"

2.20	72	2,300 1 ph. grounded.....	6 h-d. copper....	.....	June 15, 1921
5.89	199	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	9/32" galv. steel..	Aug. 13, 1920
3.00	101	4,000 3 ph. Y grounded.....	4 s-r. aluminum..	1/4" galv. steel....	Jan. 22, 1924
7.26	306	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	April 20, 1915
6.18	10a	4,000 3 ph. Y grounded.....	6 m.h-d. copper..	6 galv. iron.....	Nov. 6, 1916
5.93	210	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	9/32" galv. steel..	Aug. 13, 1920
7.92	26b	4,000 3 ph. Y grounded.....	6 m.h-d. copper..	6 galv. iron.....	Oct. 4, 1916
11.50	391c	4,000 3 ph. Y grounded.....	6 h-d. copper....	3/13 galv. steel..	May 8, 1922
10.60	333d	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	3/13 galv. steel..	Mar. 22, 1922
4.30	144	4,000 3 ph. Y grounded.....	2 s-r. aluminum..	1/4" galv. steel....	Dec. 22, 1922
6.75	240	2,300 1 ph. grounded.....	6 h-d. copper....	.....	Aug. 22, 1924
10.50	397e	4,000 3 ph. grounded.....	6 h-d. copper....	5/16" galv. steel..	Dec. 21, 1923

*d* Line carried on Watford Municipal System poles for 0.75 miles.

*e* Sarnia to Corunna—6.0 miles, 4,000 volts three phase; Corunna to Courtright—4.50 miles, 2,300 volts single phase.

## ESSEX DISTRICT—SYMBOL "N15"

4.60	7a	4,000 3 ph. Y grounded.....	2 d-b. w-p. copper	sky wire used....	Aug. 3, 1922
2.20	b	4,000 3 ph. Y grounded.....	4 d-b. w-p. copper	sky wire used....	Aug. 3, 1922
1.20	c	2,300 1 ph. grounded.....	6 d-b. w-p. copper	sky wire used....	Aug. 3, 1922
0.14	6	4,000 3 ph. Y grounded.....	6 d-b. w-p. copper	6 m.h-d. copper..	Dec. 5, 1922
7.00	261	4,000 3 ph. Y grounded.....	6 d-b. w-p. copper	1/4" galv. steel....	April 9, 1924

*b* Line carried on poles belonging to H.E.P.C. Railway for 2.2 miles.

*c* Line carried on poles belonging to Tecumseth System for 1.2 miles.

## YORK DISTRICT—SYMBOL "N16"

0.13	8	2,300 3 ph. $\Delta$ ungrounded...	350,000 c.m. w-p. copper....	None.....	April 21, 1922
0.40	a	4,000 3 ph. Y grounded.....	2 aluminum.....	1/4" galv. steel....	.....
.....	b	4,000 3 ph. Y grounded.....	2/0 copper.....	None.....	.....
.....	.....	4,000 3 ph. Y grounded.....	.....	.....	.....
0.55	21	4,000 3 ph. Y grounded.....	2/0 copper.....	1/4" galv. steel....	Feb. 17, 1915
0.22	12	4,000 3 ph. Y grounded.....	2/0 copper.....	1/4" galv. steel....	Feb. 17, 1915
13.50	540	4,000 3 ph. Y grounded.....	3/0 aluminum....	1/4" galv. steel....	Jan. 26, 1915

*b* Line carried on 26,000 volt poles of N1666 x 31 for 450 feet.



**DESCRIPTION**  
**TRANSMISSION LINES OF**  
**(Distribution)**

New section number	Old section number	From	To	Standard pole height in feet	Standard span in feet
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**ONTARIO POWER COMPANY—**

A2 x 207	.....	Ont. Power Co. dist. sta.	N.F. Water Works cable	.....	.....
A2 x 211	.....	Ont. Power Co. dist. sta.	Queen Victoria Park (Table Rock House)	.....	.....

**GEORGIAN BAY SYSTEM—**

S10 x 1002	S. L. 10.....	Stayner dist. sta.....	Creemore .....	35	120
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**GEORGIAN BAY SYSTEM—**

E1 x 101	E.F.L. 12	Eugenia gen. sta.....	Markdale.....		
E1 x 102	E.F.L. 13	Eugenia gen. sta.....	Flesherton.....		
E4 x 402	.....	Chesley dist. sta.....	Paisley.....	30	160
E7 x 702	E.F.L. 14	Durham dist. sta.....	Holstein.....	30	130
E8 x 863	E.F.L. 26	Hanover dist. sta.....	Neustadt jct.....	30	132
E863 x 2	E.F.L. 28	Neustadt jct.....	Neustadt.....	30	132
E863 x 3	E.F.L. 27	Neustadt jct.....	Carlsruhe.....	30	132
E10 x 1002	E.F.L. 18	Shelburne dist. sta.....	Hornings Mills.....	30	130
E12 x 1202	E.F.L. 21	Orangeville dist. sta....	Alton Foundry.....	30	132
E13 x 1302	E.F.L. 22	Grand Valley dist. sta...	Arthur.....	30	120
E15 x 1502	E.F.L. 16	Kilsyth dist. sta.....	Tara.....	40	125
E24 x 2402	.....	Holyrood dist. sta.....	Lucknow.....	30	150
E24 x 2403	.....	Holyrood dist. sta.....	Ripley.....	30	150

*a* Line carried on 22,000 volt poles of E1 x 52 for 7.28 miles, 40-ft. poles, 125-ft. span.

*c* Line carried on 22,000 volt poles of E57 x 56, E56 x 59 and E57 x 57 for 8.43 miles, 40-ft.

*d* Line carried on 22,000 volt poles of E62 x 12 for 0.21 mile, 30-ft. poles, 130-ft. span.

**GEORGIAN BAY SYSTEM—**

W2 x 202	W.L. 4	Beaverton dist. sta.....	Gamebridge.....		
W202 x 3	W.L. 5	Gamebridge.....	Brechin.....		
W3 x 302	W.L. 6	Cannington dist. sta....	Woodville.....	30	120
W3 x 303	W.L. 7	Cannington dist. sta....	Sunderland.....	30	120
W6 x 602	.....	Kirkfield dist. sta.....	Kirkfield.....		
W7 x 761	.....	Greenbank dist. sta.....	Uxbridge jct.....	30	160
W761 x 1	.....	Uxbridge jct.....	Uxbridge.....	30	160
W761 x 2	.....	Uxbridge jct.....	Port Perry.....	30	160

*a* Line carried on 22,000 volt poles of W56 x 52 for 5.81 miles, 40-ft. poles, 120-ft. span.

*b* Line carried on 22,000 volt poles of W51 x 56 for 3.93 miles, 40-ft. poles, 120-ft. span.

## OF LINES

## LESS THAN 5,000 VOLTS—Continued

## Feeders)

Miles	No. of poles	Voltage and connections	Size and material of power conductors B. and S. gauge	Size and material of neutral conductor	First made alive
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## SYMBOL "A"

.....	.....	2,200 (2-circuits).....	.....	.....	.....
.....	.....	2,200.....	.....	.....	.....

## SEVERN DIVISION—SYMBOL "S"

7.68	347	4,000 3 ph. Y grounded.....	1/0 aluminum.....	1/4" galv. steel....	Aug. 21, 1914
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## EUGENIA DIVISION—SYMBOL "E"

7.28	<i>a</i>	4,000 3 ph. Y grounded.....	2 s-r. aluminum.....	.....	Feb. 8, 1916
6.78	<i>b</i>	4,000 3 ph. Y grounded.....	2 s-r. aluminum.....	.....	Nov. 18, 1915
10.70	362	4,000 3 ph. Y grounded.....	4 s-r. aluminum.....	1/4" galv. ....	Aug. 13, 1923
2.63	96 <i>c</i>	4,000 3 ph. Y grounded.....	2 s-r. aluminum.....	1/4" galv. ....	April 3, 1916
2.73	161	4,000 3 ph. Y grounded.....	3/0 aluminum.....	6 galv. iron.....	Dec. 12, 1917
2.36	96	4,000 3 ph. Y grounded.....	3/0 aluminum.....	6 galv. iron.....	Nov. 17, 1918
1.22	57	4,000 3 ph. Y grounded.....	6 m.h-d. copper.....	6 galv. iron.....	Nov. 17, 1918
5.53	234	4,000 3 ph. Y grounded.....	4 m.h-d. copper.....	10 galv. iron.....	Built by P.R. Duval Co.
5.75	249 <i>d</i>	4,000 3 ph. Y grounded.....	4 m.h-d. copper.....	6 galv. iron.....	Nov. 27, 1916
12.36	531	4,000 3 ph. Y grounded.....	4 m.h-d. copper.....	6 galv. iron.....	Feb. 19, 1917
6.80	291	4,000 3 ph. Y grounded.....	6 m.h-d. copper.....	1/4" galv. steel....	Jan. 1, 1918
4.76	170	4,000 3 ph. Y grounded.....	2 s-r. aluminum.....	1/4" galv. steel....	Jan. 11, 1921
6.14	218	4,000 3 ph. Y grounded.....	2 s-r. aluminum.....	1/4" galv. steel....	Jan. 12, 1921

*b* Line carried on 22,000 volt poles of E1 x 55 for 6.78 miles, 40-ft. poles, 125-ft. span.  
poles, 125-ft. span.

## WASDELLS DIVISION—SYMBOL "W"

5.81	<i>a</i>	4,000 3 ph. Y grounded.....	1/0 aluminum.....	sky wire used....	Oct. 6, 1914
3.93	<i>b</i>	4,000 3 ph. Y grounded.....	1/0 aluminum.....	sky wire used....	Oct. 6, 1914
5.15	148 <i>c</i>	4,000 3 ph. Y grounded.....	1/0 aluminum.....	1/4" galv. steel....	Oct. 19, 1914
7.40	335	4,000 3 ph. Y grounded.....	1/0 aluminum.....	1/4" galv. steel....	Oct. 19, 1914
1.01	<i>d</i>	4,000 3 ph. Y grounded.....	2 s-r. aluminum.....	5/16" galv. steel..	June 18, 1920
5.75	208	4,000 3 ph. Y grounded.....	2 s-r. aluminum.....	1/4" galv. steel....	Sept. 29, 1922
4.00	139	4,000 3 ph. Y grounded.....	2 s-r. aluminum.....	1/4" galv. steel....	Sept. 29, 1922
1.75	76	4,000 3 ph. Y grounded.....	2/0 s-r. aluminum.....	1/4" galv. steel....	Sept. 29, 1922

*c* Line carried on 22,000 volt poles of W53 x 3 for 1.86 miles, 40-ft. poles, 120-ft. span.

*d* Line carried on 22,000 volt poles of W56 x 6 for 1.01 miles, 35-ft. poles, 150-ft. span.

**DESCRIPTION**  
**TRANSMISSION LINES OF**  
**(Distribution)**

New section number	Old section number	From	To	Standard pole height in feet	Standard span in feet
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**ST. LAWRENCE SYSTEM—**

L6 x 601		Tor. Paper Co. dist. sta.	Howard Smith Paper Mills.		
L10 x 701	St. L. 6	Morrisburg met. sta.	Williamsburg.		
L13 x 1302		Martintown dist. sta.	Lancaster.	30	160
L14 x 1462		Apple Hill dist. sta.	Avonmore jct.	30	
L1462 x 63		Avonmore jct.	Dominionville jct.	30	
L1463 x 3		Dominionville jct.	Maxville.	45	325

**RIDEAU SYSTEM—**

H8 x 801		Balderson dist. sta.	Lanark.	30	160
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**CENTRAL ONTARIO SYSTEM—**

C11 x 1101		Seymour gen. sta.	Co.'s at Campbellford.	30	132
C12 x 11		Campbellford mun. sta.	Seymour gen. sta.	30	132
C17 x 18		Peter hydraulic.	Auburn gen. sta.		
C22 x 2201		Newcastle dist. sta.	Newcastle.	35	132
C2201 x 2		Newcastle.	Orono.	30	132
C24 x 2402		Oshawa trans. sta.	Whitby.	30	132
C26 x 2601		Omeme trans. sta.	Omeme.	30	132
C31 x 3102		Norwood trans. sta.	Havelock.	30	150
C33 x 3307		Madoc trans. sta.	Gillespie Talc. Mills.	30	132
C33 x 3363		Madoc trans. sta.	Cross & Wellington jct.	30	132
C3363 x 3		Cross & Wellington jct.	Cross & Wellington.	30	132
C3363 x 65		Cross & Wellington jct.	Gillespie Talc. Mine jct.		
C3365 x 5		Gillespie Talc. Mine jct.	Gillespie Talc. Mine.		
C3365 x 6		Gillespie Talc. Mine jct.	Asbestos Pulp Co.		
C34 x 3402		Sulphide trans. sta.	Tweed.	30	132
C43 x 4302		Napanee trans. sta.	Newburgh.	30	132
C45 x 4502		Wellington trans. sta.	Bloomfield.		
C49 x 4901		Warkworth trans. sta.	Warkworth.	30	160

*a* Line carried on 6,600 volt poles of C18 x 20, 30-50-ft. poles, 100-ft. span.

*b* Poles owned by Cross & Wellington, conductor owned by H.E.P.C.

**NIPISSING SYSTEM—**

Z1 x 101		Nipissing gen. sta.	Nipissing.	28	126
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## OF LINES

## LESS THAN 5,000 VOLTS—Concluded

## Feeders)

Miles	No. of poles	Voltage and connections	Size and material of power conductors B. and S. gauge	Size and material of neutral conductor	First made alive
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## SYMBOL "L"

6.57	1	600 3 ph. $\Delta$ ungrounded....	6 m.h.d. copper...	Nil.....	Mar. 20, 1915
11.59	399	4,000 3 ph. Y grounded....	2 s-r. aluminum...	1/4" galv. steel...	May 25, 1921
1.04	18	4,000 3 ph. Y grounded....	2 s-r. aluminum...	sky wire used....	Feb. 22, 1921
0.58	8	4,000 3 ph. Y grounded....	2 s-r. aluminum...	sky wire used....	Feb. 22, 1921
5.17	94	4,000 3 ph. Y grounded....	2 s-r. aluminum...	5/16" galv. steel...	Feb. 22, 1921

## SYMBOL "H"

4.97	171	2,400 1 ph. grounded.....	2 s-r. aluminum...	None.....	Sept. 29, 1921
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## SYMBOL "C"

1.25	50	2,400 3 ph. $\Delta$ ungrounded...	4/0 aluminum....	9/32" galv. steel..	1912
1.20	50	2,400 3 ph. $\Delta$ ungrounded...	4/0 aluminum....	.....	1910
2.00	a	2,400 3 ph. $\Delta$ ungrounded...	1/0 copper.....	.....	1902 rebuilt
					1918
1.00	40	2,400 1 ph. ungrounded....	4 w-p. copper....	.....	1911
5.00	120	2,400 1 ph. ungrounded....	2 aluminum.....	.....	1912
4.00	175	4,160 3 ph. Y grounded....	2 aluminum.....	1/4" galv. steel...	1912
1.00	40	4,160 3 ph. Y grounded....	6 w-p. copper....	9/32" galv. steel..	1917
6.62	259	4,160 3 ph. Y grounded....	2 s-r. aluminum...	4x12 galv. steel...	1921
1.00	50	4,160 3 ph. Y grounded....	4 c-c. steel.....	.....	1914
0.80	32b	4,160 3 ph. Y grounded....	1 copper.....	1/4" galv. steel...	1911
1.50	60b	4,160 3 ph. Y grounded....	2 copper.....	1/4" galv. steel...	1917
1.25	c	4,160 3 ph. Y grounded....	2 aluminum.....	1/4" galv. steel...	1918
0.10	c	4,160 3 ph. Y grounded....	2 aluminum.....	1/4" galv. steel...	1914
0.20	c	4,160 3 ph. Y grounded....	6 copper.....	1/4" galv. steel...	1916
6.00	240	4,160 3 ph. Y grounded....	2/0 aluminum....	9/32" galv. steel..	1912
7.92	328	4,160 3 ph. Y grounded....	2 copper.....	6 galv. iron.....	1917
6.53	d	4,160 3 ph. Y grounded....	2 s-r. aluminum...	.....	1919
3.50	120	2,400 1 ph. grounded.....	6 copper.....	.....	Sept. 29, 1913

c Privately owned.

d Line carried on 44,000 volt poles of C45 x 46, 40-ft. poles, 176-ft. span.

## SYMBOL "Z"

2.50	128	2,200 1 ph. ungrounded.....	6 w-p. copper....	None.....	1911
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Map of the  
NORTH-WESTERLY PART OF  
ONTARIO  
Scale  
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 Miles

HYDRO-ELECTRIC POWER COMMISSION  
OF ONTARIO

# TRANSMISSION LINES AND STATIONS

AS AT OCTOBER 31, 1924

SCALE  
0 10 20 30 40 50 60 70 80 90 100 Miles

- LEGEND—
- |                       |       |                              |   |
|-----------------------|-------|------------------------------|---|
| HIGH-TENSION LINES    | —     | GENERATING STATIONS          | ● |
| PROPOSED H-T. LINES   | - - - | PROPOSED GENERATING STATIONS | □ |
| LOW-TENSION LINES     | —     | HIGH-TENSION STATIONS        | ● |
| PROPOSED L-T. LINES   | - - - | LOW-TENSION STATIONS         | ● |
| RURAL POWER DISTRICTS | ▨     | PROPOSED L-T. STATIONS       | ○ |



